

The



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

JANUARY 14 1956



they know,
you know...

The public has a long memory. If coughs trouble you again this winter people will be thinking about the remedy that was so effective last year. Many of them will remember 'Zephrol', the **M&B** brand cough syrup, for certainly if they have used it before they will have been impressed by the prompt relief it affords and its attractive appearance and pleasant flavour. They will be asking for 'Zephrol' again and so will the friends to whom it has been recommended. Now is the time to make sure of your stocks of this popular preparation.

'ZEPHROL'

trade mark brand

EPHEDRINE COUGH SYRUP

AN **M&B** BRAND MEDICAL PRODUCT

Manufactured by



MAY & BAKER LTD

Supplied in bottles of

2½ fl. oz. 2s. 6d. * plus 6d. purchase tax
40 fl. oz. 30s. 0d. (for dispensing only)

* Retail Price — subject to usual trade discount.



DISTRIBUTORS: PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD · DAGENHAM · ESSEX

MA3059

SMITH
of
EDINBURGH

ALOIN

Our product, of particularly good appearance, meets the requirements of all pharmacopœias.

CODEINE

Codeine Phosphate B.P. "Special"—Smith, has a specification which makes it of interest to tablet manufacturers.

CITRATES

Caffeine Citrate B.P., Iron & Ammonium Citrate B.P., Potassium Citrate B.P. & Sodium Citrate B.P.

MORPHINE

Long experience and modern manufacturing techniques enable us to supply material of unvarying, high quality.

SANTONIN

Colourless, odourless, white crystalline powder; available in packs $\frac{1}{8}$ th oz. upwards; prices on request.



T. & H. SMITH LTD., BLANDFIELD CHEMICAL WORKS, EDINBURGH 11

THE FULL RANGE CAN NOW BE PRESCRIBED ON FORM E.C.10

CORTISYL ROUSSEL

Cortisone

TABLETS	5 mg.	Bottles of 20
TABLETS	25 mg.	Bottles of 20 & 40
INJECTION	25 mg. per ml.	10 ml. Vials
EYE DROPS	1%	3 ml. Bottles
EYE OINTMENT	1%	3 G. Tubes

H_{YDRO}CORTISYL ROUSSEL

Hydrocortisone

SKIN OINTMENT	1% & 2.5%	5 G. & 15 G. Tubes
SKIN LOTION	½% & 1%	20 ml. Bottles
TABLETS	10 mg. & 20 mg.	Bottles of 25
INJECTIONS	25 mg. per ml.	1 ml. & 5 ml. Vials
INTRAVENOUS	100 mg.	20 ml. Ampoule
EYE DROPS	1%	3 ml. Bottles
EYE OINTMENT	2.5%	3 G. Tubes



*Manufactured in England since 1952 from raw
material of Commonwealth origin, by*

ROUSSEL LABORATORIES LTD

LONDON, N.W.10

LADbroke 3608

Grand Feen-a-mint 30th Anniversary Offer



One doz. 1/10d. packets
plus 2 free packets.

**14 TO THE DOZEN ON PARCELS
COSTING ONLY 13/- OR LESS,
DELIVERED BY WHOLESALE!**

PARCEL "A"—two dozen 9½d. Feen-a-mint with
4 FREE 9½d. packages..... **11/4d.**

PARCEL "B"—one dozen 9½d. Feen-a-mint,
½ dozen 1/10d. Feen-a-mint, with 2 FREE 9½d.
packages and 1 FREE 1/10d. package..... **12/2d.**

PARCEL "C"—one dozen 1/10d. Feen-a-mint
with 2 FREE 1/10d. packages..... **13/-**

38% PROFIT

WHITE LABORATORIES, LTD • 428 SOUTHCROFT ROAD • LONDON, S.W.16

**Feen-a-mint the ORIGINAL chewing
gum laxative offers a profit of
38% to Chemists Only!**

In celebration of their 30th anniversary (marking the completion of 30 years of successful and friendly business with the retail trade) Feen-a-mint offers, conditional on counter display, the *largest profit on any nationally advertised laxative!*

**PRESS, MAGAZINES, SAMPLING
& RADIO LUXEMBOURG**

This advertising is steadily increasing the popularity of Feen-a-mint—the *original* chewing gum laxative. Feen-a-mint is an assured goodwill-builder and a certainty for regular repeat sales. It pays to display Feen-a-mint.



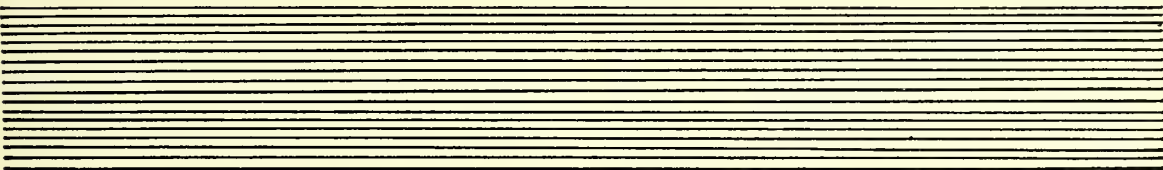
Two doz. 9½d. packets
plus 4 free packets.

These parcels with bonus goods are offered solely to chemists, and are only available through wholesalers who are members of the P.A.T.A. section.

Act now—include one or more of these parcels with your next wholesale order—the continuance of these generous terms depends on your valued co-operation.



Will your supply meet public demand?



IT'S TIME TO RE-ORDER

CROOKES

HALIBUT OIL CAPSULES

Our powerful national advertising campaign now in full swing is building up maximum support for your over-the-counter sales. Take advantage of this support at its peak and ensure maximum remuneration from sales of this high-profit line by restocking right away. Don't be caught with an empty storeroom. Send in your orders now.

Bonus terms are still available

**CROOKES HALIBUT OIL
CAPSULES**



NEW BONUS OFFER

FOR

Scan

'READY-TO-USE'
EYE DROPS



Extra tube FREE with every dozen !

PREPARE for bigger-than-ever SCAN sales ! Now soothing, cooling SCAN eye drops comes in a new, improved pack—a flexible eye-dropper for easy on-the-spot application. A wonderful sales-booster ! There's a compact dispenser for your counter holding 12 tubes too.

More ! There's a great new Bonus Offer now in full swing . . . 13 tubes of SCAN for every 12 you order. This bonus offer is available until the 25th February, 1956.

The demand for SCAN will be given added impetus by national advertising and sales promotion. Make sure you have stocks on hand by taking advantage of this new pack and bonus offer.

Trade : 10/6d. per dozen (P. Tax—30%)

Retail : 1/6d. per tube (inc. P. Tax)

ORDER TODAY FROM YOUR USUAL WHOLESALER
Or direct from :—

ALLCOCK PRODUCTS LIMITED
KNOWSLEY ROAD · LIVERPOOL 20

Protection
against
colds . . .

ESOBACTULIN

ORAL VACCINE CAPSULES

6 capsules taken over 5 days gives most people 3 months protection from colds

Retail price 7/10½d. (complete course) inc. P. Tax

STOCK NOW TO MEET THE DEMAND

Order from your usual Wholesaler

33½% DISCOUNT plus Bonus 13 to the dozen

SOUTHON LABORATORIES LIMITED · LONDON · S.W.15

You must sell this
6^d
sachet!



The big demand for Shandruff, the enemy of dandruff, is growing every week—it is a lovely shampoo which does what is claimed for it and is the only 6d. sachet of its type now on the market. Don't leave it any longer.



These neat little counter display cards will aid your sales.

Price 42/- per gross sachets, plus P.T. AVAILABLE ON SALE OR RETURN

From your usual wholesaler or

VINES BIOCRIN LIMITED
222-224, HARROW ROAD, LONDON, W.2

Telephone: CUNningham 1172-3

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TABLETS

To any Formula

Our long experience of tablet manufacture is at your disposal. Exercising the strictest laboratory control throughout all production stages, we prepare tablets, coated or uncoated, to B.P., B.P.C., N.F., or customer's own formula, processing his own materials if desired. Our service includes your 'own name' labelling and packaging to meet individual requirements.


W. B. CARTWRIGHT LTD.

MANUFACTURING CHEMISTS

RAWDON
LEEDS

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A New Bengué-Bailly Product

GROMIDIN TABLETS

each containing 0.25 mg. Pure Gramicidin, an antibiotic of microbial origin. It is a cyclic polypeptide containing various amino-acids (Glycine-Alanine-Valine-Leucine-Tryptophane) and Ethanolamine.

Indications: Treatment and prophylaxis of rhino-pharyngeal, laryngeal, buccal and dental affections. Also in treatment of bronchitis.

POSODOLOGY

5 to 10 tablets daily, to be dissolved slowly in the mouth

★

PACKING: TIN OF 25 TABLETS

Your price 31/6 per dozen

Retailing at 3/6 per tin

When a cough sedative,
expectorant and respiratory
tonic is required . . .

PULMO-BAILLY

IS THE ANSWER

Prescribable on Form E.C.10.

★

90 c.c. BOTTLE

Your price 34/- per doz. plus 9/11½ P.T.

Retailing at 4/8 each

★

DISPENSING PACKS

16 fl. ozs. 11/6 net. 80 fl. ozs. 45/- net.



BENGUE & CO., LTD.

Manufacturing Chemists, MOUNT PLEASANT, ALPERTON, WEMBLEY, MIDDX.

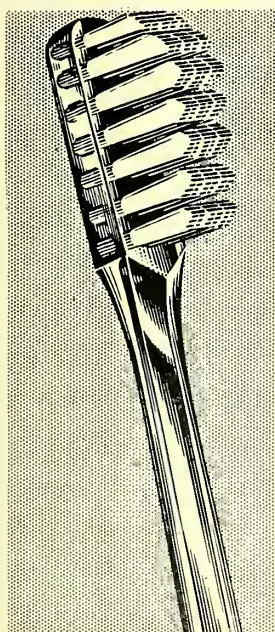


THE MOST AMAZING BONUS TERMS

Tek

TRADE MARK

HAVE EVER OFFERED



Profits you can't afford to miss!

- * Your Tek representative will be calling soon to give you details of Tek's most generous bonus offers yet—to tell you at first hand what Tek's new bonus terms mean to you in *hard cash*.
- * Never before have you had the opportunity to make such large profits from such a popular range of toothbrushes—so wait until you have seen your Tek representative who will help you to buy your toothbrushes to your best advantage.
- * Tek sales in 1955 reached new peaks. This year's heavier national advertising and lively display material will see to it that Tek sales and your profits soar even higher!

Don't order toothbrushes until you've seen your Tek representative . . .

then order

Tek

TRADE MARK

for the biggest toothbrush-profits
of the year



Johnson & Johnson
(GT. BRITAIN) LTD. SLOUGH



Available in **10** attractive
packaging styles including
Chemist's 'Own Brand' series

ARTHUR H. COX & CO. LTD.
Manufacturing Chemists since 1839
BRIGHTON, ENGLAND



AMISYN TABLETS

for the treatment of

CHILBLAINS

Acetomenaphthone B.P. 10mg.

Nicotinamide B.P. 50mg.

COUNTER DISPLAY UNIT OF
12 CARTONS EACH 24 TABLETS

THE ARMOUR LABORATORIES
(ARMOUR & COMPANY LTD)

HAMPDEN PARK, EASTBOURNE, SUSSEX
Telephone : Hampden Park 740
Telegrams : "Armolab" Eastbourne

VALID FROM 16th JANUARY 1956

New prices of

persomnia ^{tabs} for INSOMNIA and DAYTIME TENSION

16 tablets	Retail 2/9 each incl. P.T. Trade 19/2 doz. plus 5/9 P.T.
36 tablets	Retail 5/6 each incl. P.T. Trade 38/4 doz. plus 11/6 P.T.
100 tablets	Retail 13/6 each incl. P.T. Trade 93/4 doz. plus 28/- P.T.

For dispensing:

250 tablets Trade 204/- doz. P.T. exempt

Packing of 1,000 tablets discontinued

Order from your Wholesaler or direct from
sole distributor in U.K.—Clinical Products
Ltd., Richmond, Surrey. (best 'CPL' terms
apply—10% extra discount on £5 parcels).

Stock

Quosh

FRUIT SQUASH



- * **Sells better**
- * **Tastes better**
- * **IS better**

because it's made from Real Fruit Juice
from natural sun-ripened fruit.

It's made by the Ribena people

MINIMUM PROFIT

7¹⁰/₂

**per bottle
20% on Sales**

Special quantity discounts
on application

- * Let our representative
help you with
attractive display material
THAT SELLS.

For further information write or phone to:—

BEECHAM FOODS LIMITED, GREAT WEST ROAD, BRENTFORD, MIDDLESEX

Telephone: Ealing 7711

YOU can win a

SEE THAT YOUR CUSTOMERS ENTER THE

LIFEGUARD

DISINFECTANT ★ ANTISEPTIC

CONTEST!

From mid-February, a tremendous national campaign will be getting your customers excited about the Lifeguard Contest—and increasing Lifeguard sales. See that you get your share. Always have Lifeguard on display!

PRIZES!

£3,000 DAVIS-BUILT HOUSE

80 HOOVER WASHING MACHINES

40 HOOVER STEAM IRONS

YOU CAN ENTER, TOO!

AND IF A CUSTOMER OF YOURS TAKES TOP PRIZE—

YOU CAN WIN A NEW FORD ANGLIA

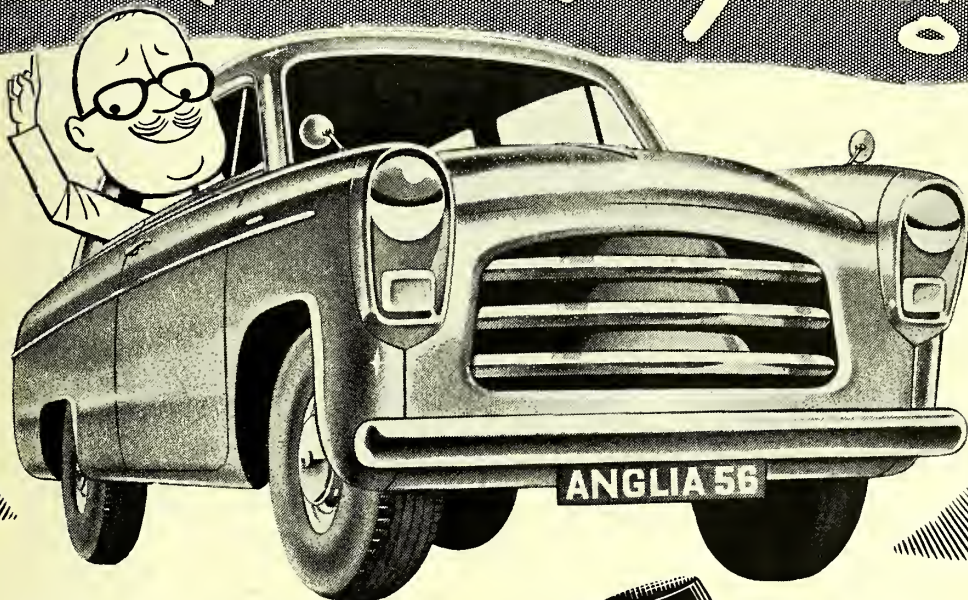
(taxed, insured, or you can have its value in cash instead)

and 120 MORE DEALER PRIZES

To every dealer that sells any prize-winning bottle—

6 DOZEN MEDIUM SIZE BOTTLES OF LIFEGUARD—value £4.16.0

1956 Ford Anglia!



★ **EVERY WOMAN
IN BRITAIN**
WILL KNOW ALL ABOUT IT
THROUGH GIANT ADS IN
DAILY EXPRESS • DAILY MIRROR
DAILY MAIL • DAILY HERALD
ILLUSTRATED • WOMAN
WOMAN'S OWN
WOMAN'S WEEKLY • JOHN BULL
Provincial Papers throughout Britain

THEY WILL ASK YOU FOR

LIFEGUARD

DISINFECTANT ★ ANTISEPTIC

BY NAME!



NICHOLAS PRODUCTS LABORATORIES LTD., SLOUGH, BUCKS.

NEW-FORMULA**SUPAVITE**

REGD.

NOW CONTAINS**Trace-Element Minerals****INCREASED VITAMIN POTENCY****PLUS****ESSENTIAL TRACE-ELEMENTS****MAKES****SUPAVITE MORE EFFECTIVE****HEAVIEST ADVERTISING IN THE HISTORY****OF 'SUPAVITE' BREAKS NOW**

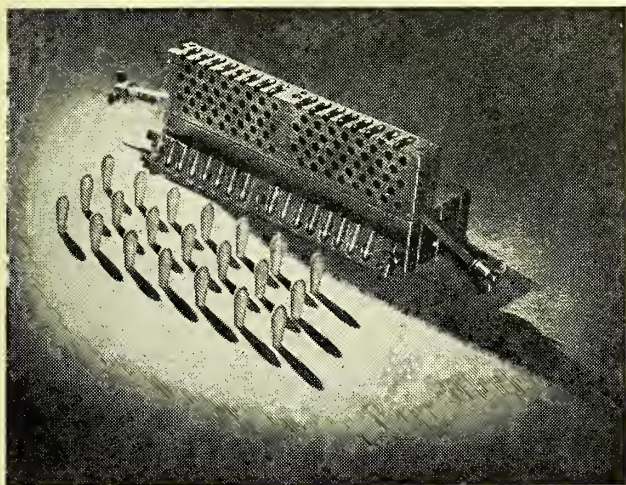
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 Notes.

**DISPLAY
 PROMOTE
 PROFIT BY**

SUPAVITE !

REGD.

★ **SUPPOSITORIES**



MANUFACTURED BY
SKILLED LABOUR
from
**HIGHEST QUALITY
MATERIALS**

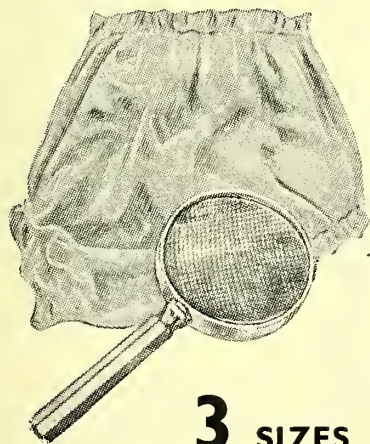
YOU CAN ORDER WITH
CONFIDENCE FROM

RICHARD DANIEL & SON LTD.

MANUFACTURING CHEMISTS

MANSFIELD ROAD, DERBY — Tel : 48266 (4 lines) AND AT ASHTON - UNDER - LYNE — Tel : 2816 (3 lines)

ERICA .. now introduce **BABY PANTS** that **B·R·E·A·T·H·E**



3 SIZES
Medium, Large, Extra Large

Representing Hygiene's newest development, the plastic material now used incorporates thousands of well-nigh invisible "pores" permitting the passage of air which in turn promotes a cooling action yet at the same time retaining moisture.

- ★ ACID-RESISTANT! ★ NON-TOXIC!
- ★ WATERPROOF & BOILABLE!
- ★ A GUARANTEE AGAINST NAPPY RASH!

WISE MOTHERS INSIST ON ERICA!

Obtainable from your usual wholesaler

ERICA PRODUCTS LTD., 147-149 KENSAL ROAD, LONDON, W.10

Tel : Maids Vale 2981



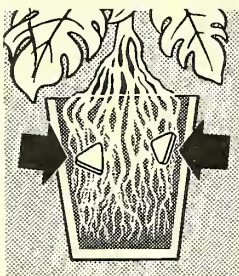
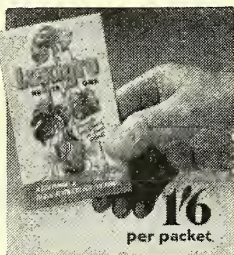
*when
you sell
indoor
plants
—sell*

Luxigro

For the promotion of strong root and top growth nothing surpasses the tonic effect of LUXIGRO. Its carefully balanced ingredients provide the extra vitamins necessary to healthy plant life. Messrs. Rochfords the specialists in indoor plants recommend LUXIGRO.

WATCH FOR THE 2 KINDS

There are two types of LUXIGRO No. 1 for leaf bearing and No. 2 for flower bearing indoor plants. They each cost 1/6 per packet.



SO EASY TO USE

LUXIGRO is simple and clean to use. Just press the tablets half an inch into the soil two inches from the main stem of the plant.

*help the grower — help yourself
—sell*

Luxigro

A CHEMICO PRODUCT

TABLET FERTILIZER

THE COUNTY CHEMICAL CO. LTD.
DEPT. CD.2, SHIRLEY, BIRMINGHAM

Smoke

is coming

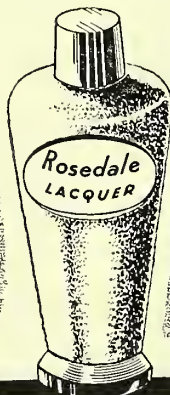
what is it? SOON

watch these pages

ROSEDALE

“LACQUER”

the finishing touch



The finest lacquer
and easy to use ...
at a price within
reach of all

RETAIL 3/6
REFILLS 2/3 each

Obtainable from all leading
wholesalers
or direct
from
Rosedale
Products Ltd

ROSEDALE PRODUCTS LIMITED

ROSEDALE WORKS, BIRKBECK RD. DALSTON E.8.

T A B L E T S



We make a wide variety of tablets on a contract basis for well known Companies, Manufacturing and Wholesale Chemists, etc. Customers' own formulae can be developed as part of our service. Naturally all contract work is undertaken on an absolutely confidential basis.

Quantities large or small, bulk or packed.

T A B L E T S



For Retail Pharmacists we supply all the official tablets made to the highest possible standards. We offer a dependable service from every point of view for tablets in bulk or packed.

Aspirin Tablets and Compound Codeine Tablets with "own name" labels at competitive prices.

As one of the oldest established firms of Manufacturing Chemists and specialist tablet makers, we offer a first-class tableting service.

GET IN TOUCH WITH

THOMPSON & CAPPER
WHOLESALE LTD.

MANUFACTURING CHEMISTS, SPEKE, LIVERPOOL, 19

Telegrams: 'Sanitas'

Telephone: Hunts Cross 1321

ATTRACTIVE BAGS for the pharmacy



A printed counter satchel or bag is so convenient . . . but it is more. It is a neat and distinctive container for many small purchases, brighter and more colourful than ordinary wrapping paper, and certainly giving a better impression to your customers. Satchels become even more distinctive with your own name printed on them . . . a service we can give you at small extra cost.

CERTOR COUNTER SACHELS

- CERTOR No. 1.** 5" x 7" x 9½". Mortar and Pestle design. Blue and maroon or green and black. Strung in 100s.
- CERTOR No. 1B.** 4" x 5¼" x 7½". Smaller size of above. Strung in 100s.
- CERTOR No. 2.** 5" x 7" x 9½". Carboy design. Powder blue and maroon. Strung in 100s.
- CERTOR No. 2B.** 4" x 5¼" x 7½". Smaller size of above. Strung in 100s.
- CERTOR No. 4.** 5" x 7" x 9½". Linen pattern. Peach and brown. Boxed in 500s.

CERTOR PRINTED BAGS

- CERTOR LOZENGE BAGS.** 5" x 5". Carboy-Mortar design. Two shades of blue. Strung in 100s.
- CERTOR BEAUTY-AID BAGS.** 6" x 4". Photogravure. Black, red and gold. Boxed in 1,000s.
- CERTOR SANITARY TOWEL BAGS.** 6" x 9½" x 15½". Green printed stripes. Strung in 100s; packed in 500s.

Special prices for quantities

OWN-NAME PRINTING

Your own name can be printed on Certor Counter Satchels at very little extra cost. For the smallest quantity (5,000), the cost works out at 28 for 1d. To get the advantage of the low rates it is necessary for orders to be placed 2-3 months in advance of actual requirements.

	5,000	10,000	25,000	50,000
Per 1,000	3/-	1/9	9d.	Free

★ *If it's paper,*

or made with paper, get it from **MACDONALD'S OF MANCHESTER**

MACDONALD & SON LTD · HOPE MILLS · POLLARD STREET · MANCHESTER 4

*Pharmaceutically
Yours*

**KIRBY
OF LONDON**

NEWMAN HOUSE • BELTON ROAD • LONDON N.W.2

Come to think of it....



A BOWATER PRODUCT ENTIRELY BRITISH

MADE AT ST. ANDREW MILLS · LONDON ·

One naturally thinks of



That's because

ANDREX is nationally advertised

Single Pack 1/3 each . . . Trade 11/1 a dozen
Double Pack 2/4 each . . . Trade 20/2 a dozen

(Remember too - you make 4^{d*} on every roll)

* Actually 3 1/2"

SECTO

FOR A QUICK TURNOVER



50TH YEAR



NEW AEROSOLS

in latest domed top containers
Non-toxic. Safe near foodstuffs
Unbeatable value.

LARGER SIZES for LOWER PRICES
NEW ASTRAL AIR PURIFIER AND
INSECT KILLING AEROSOL

Choice of 3 perfumes 4/11

SECTO AEROSOLS

6 oz. containers (holding approx. 5 oz.) 5/3 each
12 oz. containers (holding approx. 10 oz.) 9/6 each

SECTO POWDER

now packed in

NEW PRESS GUN Container

OTHER NEW SECTO PRODUCTS

Garden Pest Killer, Capsules 3 for 1/6;
Special Syringe 4/6. Home Outfit (8 oz.
Liquid and Plastic Squeeze Bottle), 3/6.
Woodworm Killer Outfit, 8 oz. Special
Liquid and Injector, 4/6.

ADVERTISED IN LEADING
Women's and National Press

UNBEATABLE SPRAYER VALUE

Choice of Continuous Action Sprayers 3/9
or Single Action Sprayers 3/6
retail price

Secto Powder, Aerosols and
Liquid have been awarded
GOOD HOUSEKEEPING SEAL



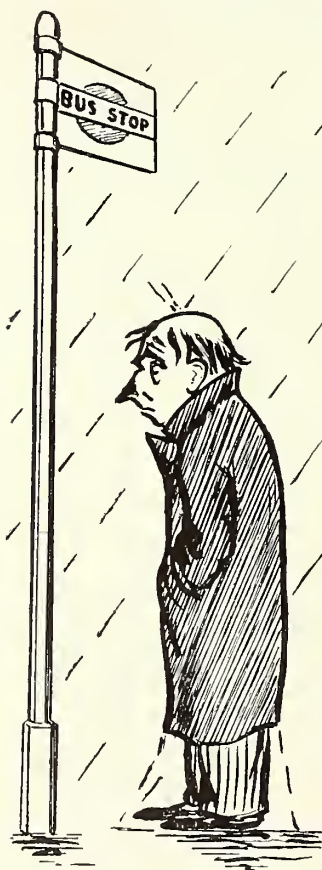
Secto Powder and Liquid are formulated to contain the latest insecticidal ingredients:-
D.D.T., LINDANE, DIELDRIN, PYRETHRINS Etc. AND ARE
FRAGRANTLY PERFUMED

The name that guarantees accuracy

- CLINICAL THERMOMETERS
- HOUSEHOLD THERMOMETERS
- INDUSTRIAL THERMOMETERS

**G · H · ZEAL
LTD**

LOMBARD ROAD · MORDEN
ROAD · LONDON · S.W.19
Telephone: LIBERTY 2283 · 4 · 5 · 6 and 4201
Cables Zealdom " London



Further outlook —
COLD and WET!

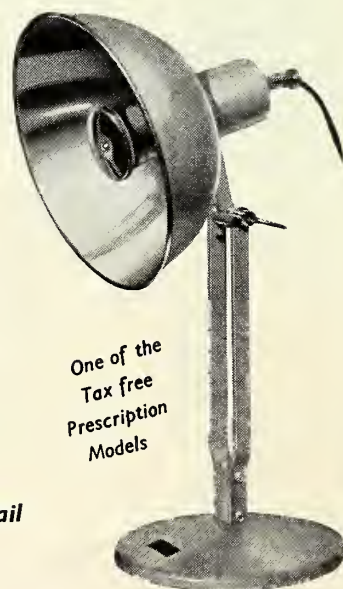
Just the weather for Rheumatism,
Fibrositis, Lumbago, Stiff Neck
and

RADIARAY
INFRA-RED
and Radiant Heat Lamps.

Unbeatable value at prices from 73/- retail
including Tax.

Illustrated brochure available from

Dept. 6, **Hinders Limited** 174/192 Estcourt Road, London, S.W.6. Est. 1949



One of the
Tax free
Prescription
Models

'EYES are RIGHT'

**when protected
from sun glare**

order through

*These
World famous
fashion
SUNGLASSES
are obtainable in
a wide variety of
styles and prices
retailing
1/- to 21/-*



by

**samco
sunglasses**

Sole distributors :

D. HARRIS & COMPANY LTD.

73 BREWER STREET, LONDON, W.1.

Tel: GERRARD 7166

your usual wholesaler

See us at the
**GIFTS & FANCY
GOODS FAIR
BLACKPOOL**
February 6th—10th
METROPOLE HOTEL
ROOM 283

**NOTHING
BEATS
FLIT!**

**BEST SELLING
BIGGEST ADVERTISED
WORLD'S NO. 1 INSECTICIDE**



**FLIT AEROSOLS
SPECIAL SEPARATE
BONUS OFFER**

5% BONUS

- 4 DOZ. x 5 OZ.
or { 2 DOZ. x 5 OZ.
1 DOZ. x 12 OZ.
or { 3 DOZ. x 5 OZ.
1/2 DOZ. x 12 OZ.
or { 1 DOZ. x 5 OZ.
1 1/2 DOZ. x 12 OZ.

2 1/2% BONUS

- 2 DOZ. x 5 OZ.
or { 1 DOZ. x 5 OZ.
1/2 DOZ. x 12 OZ.

*** Remember, these parcels
must be kept separate. Order,
however, at the same time
as your Flit bonus parcel.**

**FLIT
LIST
PRICES**

	Packed In Outers Containing	Retail Price	List Price
8-oz.	2 doz.	2/- each	17/- doz.
16-oz.	1 "	3/3 "	27/- "
32-oz.	1 "	5/9 "	48/- "
160-oz.	singly	20/- "	168/- "
160-oz. Livestock Spray	"	12/6 "	105/- "
Flit Hand Sprayers	1 doz.	3/6 "	29/- "
2-oz. Flit Powder Puffer Pack	2 "	1/3 "	10/- "
5-oz. Flit Aerosol	1 "	5/6 "	48/3 "
12-oz. Flit Aerosol	1/2 "	10/6 "	92/- "
Flit Flycards	1/2 gross	4d. "	32/- gross

FLIT — WORLD'S NO. 1 INSECTICIDE — ANOTHER  PRODUCT

OFFERS YOU THE BIGGEST EVER PROFITS IN 1956



60%

PROFIT

on every £10 order
(costs you only £9)

55%

PROFIT

on every £8 order
(costs you only £7.8.0)

52%

PROFIT

on every £5 order
(costs you only £4.15.0)

THESE SPECIAL DISCOUNTS

apply to mixed orders of Flit Liquid Insecticide, Flit Hand Sprayers and Flit Powder to the values as indicated below

10%

ON ALL ORDERS TO LIST VALUE OF £10 AND OVER

7½%

" " " " £8 " "

5%

" " " " £5 " "



DOUBLE-ACTION FLIT LIQUID
in 8 oz., 16 oz., 32 oz.
and 160 oz. tins



HAND
SPRAYER:
Strongly-built,
easily filled,
and sells for
only 3/6d.



2 oz. FLIT
POWDER
PUFFER
PACK:
retails for
only 1/3d.

ORDER NOW To reap the extra profit of these bonus terms, your order must reach us, either directly or through your wholesaler, in time for delivery by April 30th, 1956.

ARRANGE DISPLAYS —back the National Flit Advertising with shelf, counter and window displays. Ask for our attractive sales aids.

Quality
in White Flint Glass
Containers



DISPENSING BOTTLES
 1-oz. to 20-oz.

RIBBED OVALS
 $\frac{1}{2}$ -oz. to 16-oz.

TABLET BOTTLES
 Nos. 1 to 7 $\frac{1}{2}$ sizes.

ROUND SCREW JARS
 Tall and Semi-squat.

BOW-FRONT PANELS
 1-oz. to 8-oz.

PANELLED FLATS
 1-oz. to 4-oz.

VIALS
 $\frac{1}{2}$ -oz. to 3-oz.

OLIVE OIL BOTTLES
 2 $\frac{1}{2}$ -oz., 5-oz. & 10-oz.

WHOLESALE ONLY

*Bow-Front Panels now also available
 in 16 oz. size.*

TRADE



MARK

- Prompt delivery from stock
- Packed in easily handled cartons

**NATIONAL GLASS
 WORKS (YORK) LTD.**

FISHERGATE, YORK. Tel. YORK 3021.
 ALSO AT 105, HATTON GARDEN, LONDON, E.C.1.
 TEL. HOLBORN 2146



IN THE SERVICE OF YOUR INDUSTRY

... with a range of products including ...

P.C.M.C. P.C.M.X.

Cresantol*-15 Cresantol*-3

(*Registered Trade Marks)

Write for full details to:

MONSANTO CHEMICALS LIMITED

543 Victoria Station House, Victoria Street, London, S.W.1

and at Royal Exchange, Manchester, 2.

In association with: Monsanto Chemical Company, St. Louis, U.S.A. Monsanto Canada Limited, Montreal. Monsanto Chemicals (Australia) Ltd., Melbourne. Monsanto Chemicals of India Ltd., Bombay. Representatives in the world's principal cities.



Extra Bonus

WHEN YOU SELL—

COOPER'S

PRESSURE PACKS



HOUSEHOLD AEROSOL

EXTRA discounts will again be allowed this year on all orders for Cooper's Household Aerosol for delivery before April 30th. TWO SIZES ONLY will be supplied in 1956—Popular Size (5-oz.), retail price 5/6, and Large Size (12-oz.), retail price 10/6. In addition to normal Trade and Cash discounts the following bonuses will apply:—

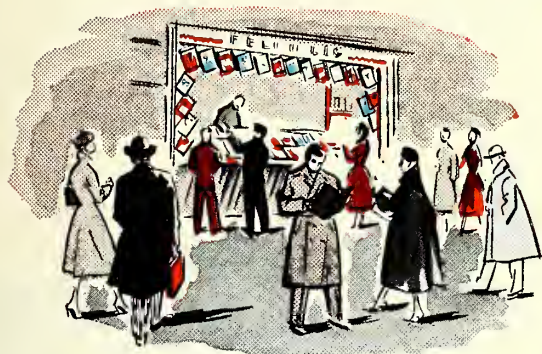
5% BONUS on 4 doz. units. **2½% BONUS** on 2 doz. units.

COOPER'S HOUSEHOLD FLYSPRAY

Besides the bonuses on the Household Aerosol, MOTH-aire and FRESH-aire, a separate 5% BONUS DISCOUNT will be allowed on all orders, value £5 or over, for Cooper's Household Flyspray placed not later than April 30th. Sprayers, Cooper's Moth Powder, Mothspray and Household Insecticide can be included to make the total value of the order up to £5 or more. Normal prices and discounts for these products are given in the 1956 Cooper's Household Trade List.



OVER 71,300,000 ADVERTISEMENTS



— for Cooper's Household Aerosol, MOTH-*aire* and FRESH-*aire* in 1956! A greatly increased advertising campaign for Cooper's pressure packs is being undertaken this year, with more insertions, in more papers than in 1955. Commanding HALF-PAGE spaces will again be used, and the campaign will extend from early May until September. Media will include RADIO TIMES, JOHN BULL, PICTURE POST, ILLUSTRATED, READER'S DIGEST, PUNCH & WOMEN'S MAGAZINES. Attractive display material will also be available.

MOTH-*aire* and FRESH-*aire*

If a bonus quantity order is placed for COOPER'S HOUSEHOLD AEROSOL, you can also order MOTH-*aire* and FRESH-*aire* on the same bonus terms up to April 30th. The bonus rate on each will be the same as that allowed on the qualifying order for Cooper's Household Aerosol. Full details of these three Cooper pressure packs are given in the 1956 Cooper's Household Trade List. Write for a copy if you have not already received one.



You're right on the **BUTTON**

WHEN YOU STOCK AND DISPLAY

COOPER'S PRESSURE PACKS

COOPER, McDOUGALL & ROBERTSON, LTD., BERKHAMSTED, HERTS. EST'D 1843.

Scottish Office : 62, Robertson Street, Glasgow, C.2.



Sebbix

*the family
shampoo
that*

**ELIMINATES
DANDRUFF**



← HERE'S THE NEW
SALES COMPELLING PACK
*Show it on your counter and see the
interest it arouses.*

Remember Sebbix Shampoo —

. . . safeguards hair health

highlights hair beauty . . .

Retail price (Bottle sufficient for 6—8 good shampoos) 3/3

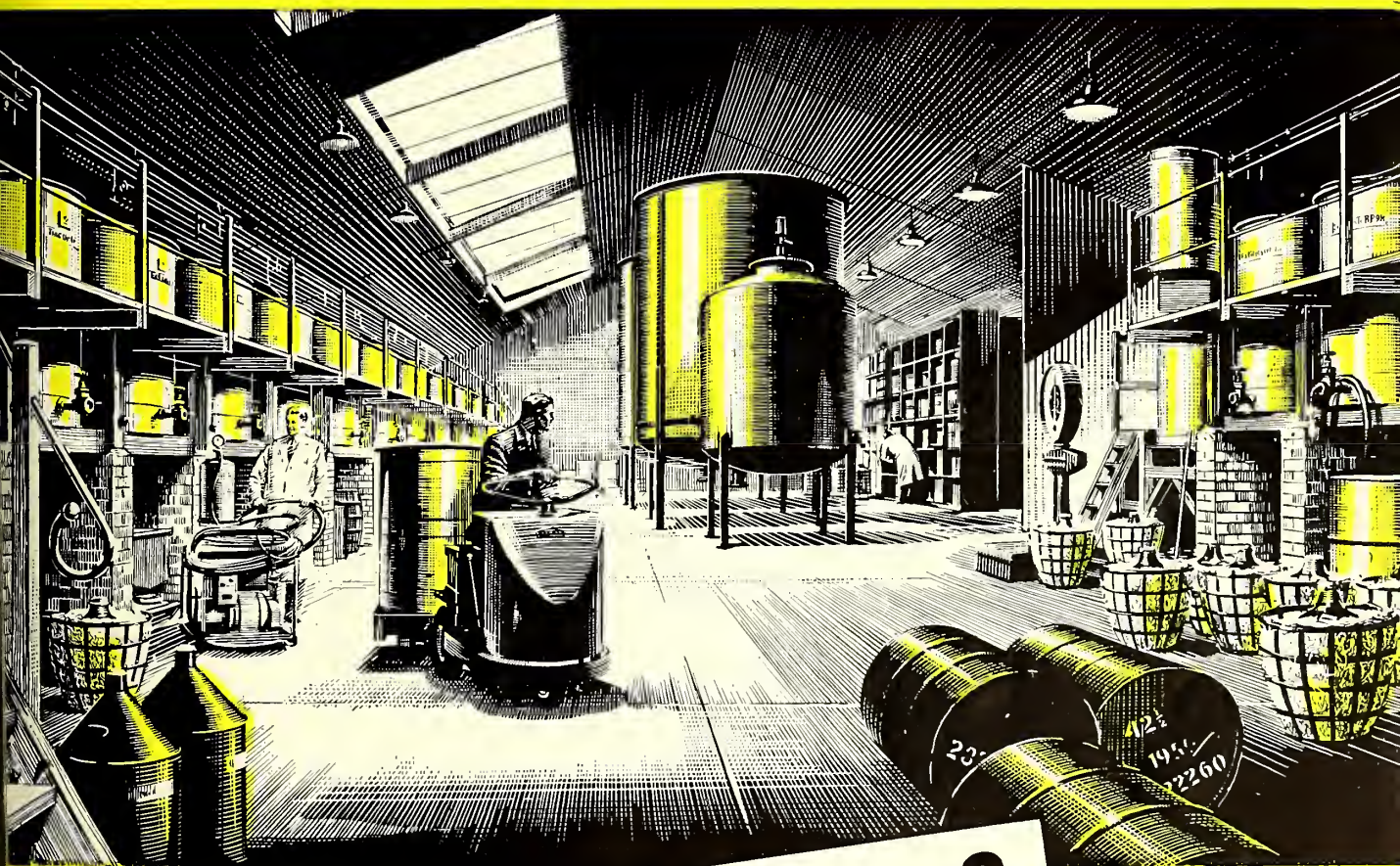
GENATOSAN LTD. Loughborough, Leicestershire.



YOUR GALENICAL SUPPLIES THIS WINTER

This winter you will be using regular supplies of galenicals for your own specialities or, for wholesale distribution to the dispensing chemists. In either case you will find Stafford-Allen's Galenicals to be, as always, of the highest and most reliable standard, and available for prompt delivery. Up-to-date equipment and stringent analytical control ensures this traditional "Standard of Reliability."

**LIQUID EXTRACTS • TINCTURES • EMULSIONS
INFUSIONS • LIQUORS • SYRUPS • DECOCTIONS
ELIXIRS • ETC. ETC.**



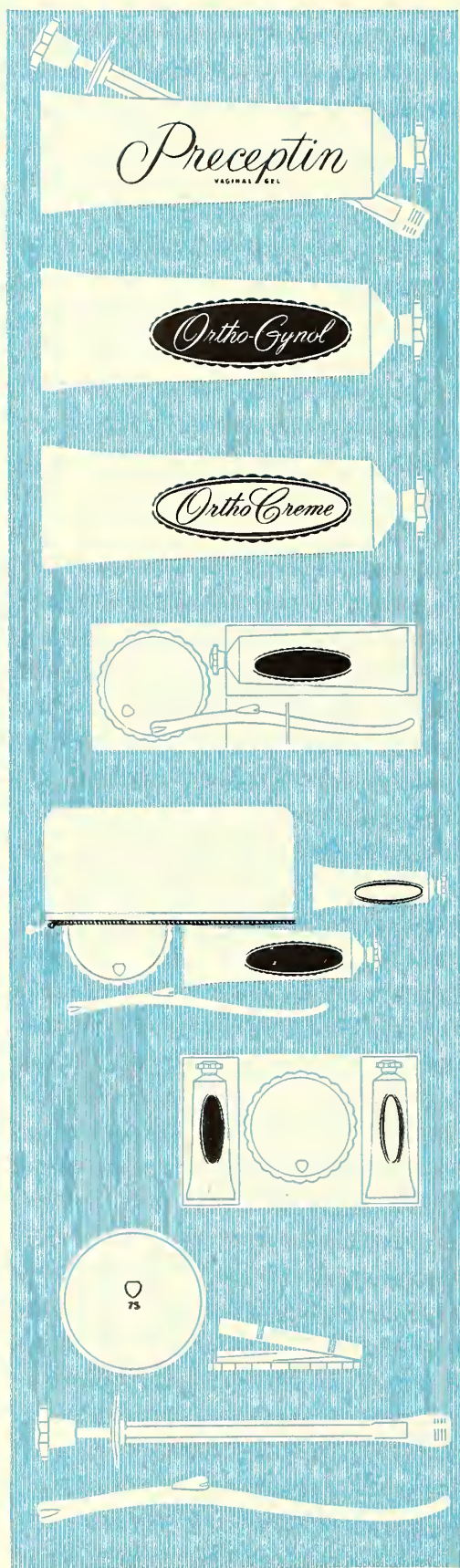
Local Production at
Stafford Allen's



STAFFORD ALLEN & SONS LIMITED, WHARF ROAD, LONDON, N.1
Telephone : CLERKENWELL 1000.

Telegrams : STAFALENS NORDO LONDON

TAS/AL 512



the ethical name in contraception

Preceptin Vaginal Gel

Contraceptive gel for use without

a diaphragm.

Package A: 85 gm. tube, with Ortho Applicator

Package B: 85 gm. tube

Ortho-Gynol

Contraceptive jelly.

Package A: 85 gm. tube, with Ortho Applicator

Package B: 85 gm. tube

Ortho Creme

Contraceptive cream.

Package A: 75 gm. tube, with Ortho Applicator

Package B: 75 gm. tube

Ortho-Gynol Set

Containing:

85 gm. tube of Ortho-Gynol

Ortho Diaphragm

Ortho Diaphragm Introducer } in sizes 55 to 95 (in 5mm. gradations)

Ortho Creme Set

As Ortho-Gynol Set with tube of Ortho Creme instead of Ortho-Gynol in sizes 55 to 95 (in 5 mm. gradations)

Ortho De Luxe Kit

Containing full size Ortho-Gynol, trial size Ortho Creme, Ortho Diaphragm and Diaphragm Introducer in woven plastic zipper bag. Sizes 55 to 95 (in 5 mm. gradations)

Ortho Diaphragm Duo-Pack

Containing:

Ortho Diaphragm in sizes 55 to 95 (in 5 mm. gradations)

Trial size Ortho-Gynol

Trial size Ortho Creme

Ortho Diaphragm

Coil spring, sizes 55 to 95 (in 5 mm. gradations)

Ortho-White Diaphragm

Flat spring, sizes 55 to 95 (in 5 mm. gradations) Each Ortho Diaphragm is packed in a permanent and beautiful plastic box.

Ortho Applicator

For vaginal application of measured dose (5 cc.) Ortho-Gynol, Ortho Creme or Preceptin Vaginal Gel.

Ortho Diaphragm Introducer

Individual introducers to accommodate diaphragms sizes 55 to 95 (in 5 mm. gradations)



Ortho Pharmaceutical Limited · High Wycombe · England

How many 'Philishaves'
will you have sold by

JAN. 1 1957 ?

There's not the slightest doubt that your 'Philishave' sales will go on going up during 1956. Why? Because the unique 'Philishave' has Rotary Action for shaving that's not only comfortable but close, not only close but convenient. Because 'Philishave' advertising will continue in the national press, in the provincial press, in magazines, on posters, on radio, on television. Because the 'Philishave' can't be equalled for value. And simply because you can't stop a man recommending a good thing to his friends. But in the end, of course, the number of 'Philishaves' you sell in 1956 depends on you yourself. All the things we've mentioned will sell 'Philishaves' *for* you, yes. But if you display the 'Philishave' sales material . . . if you put the 'Philishave' in its case prominently on your counter . . . if you recommend the 'Philishave' yourself . . . well, *then* the sky's the limit. No longer, in fact, will you need our good wishes for a very prosperous New Year — because, quite definitely, you'll have one.

PHILIPS PHILISHAVE

the dry shaver with *Rotary Action*



A PRODUCT OF PHILIPS ELECTRICAL LTD

(PS645B)

C

NOW!

With the new

HALEX

pick-your-pattern bonus, you get

4 FREE DISPENSERS

newly styled for bigger sales



Your supplier will send you these dispensers with your order. Get in touch with him right away.
Offer valid from January 2nd to March 31st 1956.

Let these bright, brand-new dispensers do a selling job *for* you. Better still, this year's Halex pick-your-pattern plan offers you *free* toothbrushes with every order—and you can order as many as you like !

Here's how the plan works

FOR EVERY 3 DOZEN OR MORE BRUSHES ORDERED YOU GET 3 FREE BRUSHES.

FOR EVERY 6 DOZEN OR MORE BRUSHES ORDERED YOU GET 12 FREE BRUSHES.

FOR EVERY 12 DOZEN OR MORE BRUSHES ORDERED YOU GET 36 FREE BRUSHES.

And here's your profit

On 3 dozen brushes plus bonus 62½%

On 6 dozen brushes plus bonus 75%

On 12 dozen brushes plus bonus 87½%

Buy as many brushes as you like, pick any pattern you like — there are no restrictions !

Your Free Dispensers—here they are

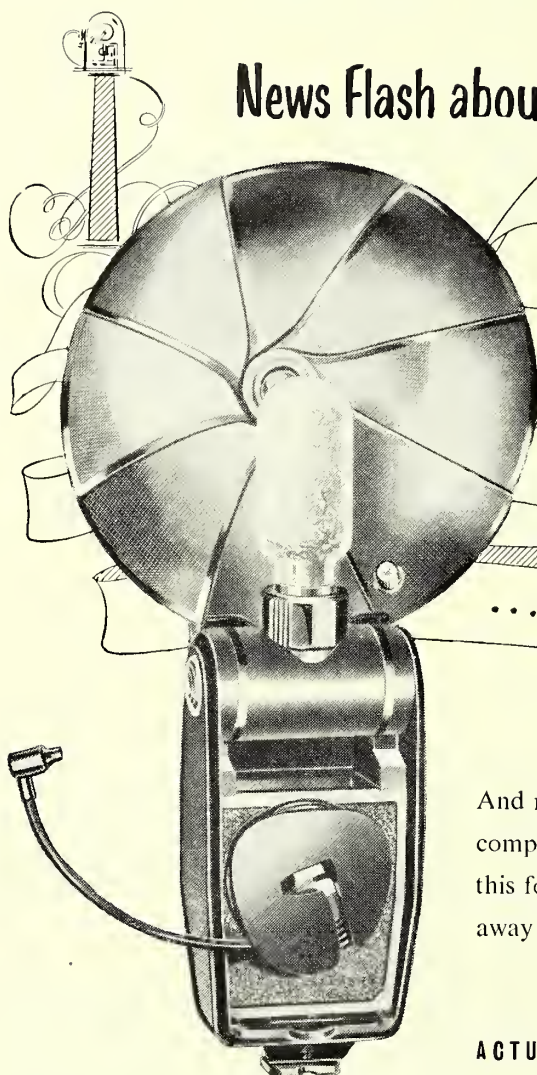
- 1 Dispenser No. A624, ready-packed with 2 dozen No. A260 toothbrushes—the 1/6 value-for-money brush.
- 2 Dispenser No. A623, ready-packed with 1 dozen each of brush No. A.261 (nylon) and No. A265 (bristle)—both 5-Star top quality brushes.
- 3 Dispenser No. A622, ready-packed with 1 dozen each of No. A210 (nylon), No. A250 (nylon) and No. 260 (nylon).
- 4 Dispenser No. A625, ready-packed with 2 dozen "Noddy" children's brushes in nylon (A192) and bristle (A191). More children than ever are now seeing lovable little Noddy on Independent TV—and Noddy toothbrush sales are soaring!



HALEX (a Division of the British Xylonite Co. Ltd.)

HIGHAMS PARK, LONDON, E.4. Tel: LARKSWOOD 2345

News Flash about

FLASH SALES!

RECENTLY INTRODUCED

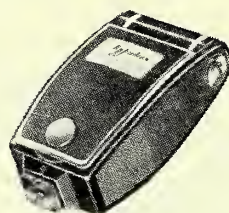
AGFA AGFALUX IS

SELLING - AND SELLING

... - AND SELLING

And no wonder! It's the neatest, most compact unit ever designed. It opens like this for flash-action shots . . . packs away like this in its neat zip case.

ACTUAL SIZE WHEN FOLDED
4½" x 2¼" x 1½"



Agfalux complete in zip case to fit camera sling **£4.12.10**

--and for still more **FLASH PROFITS**--

**TWINFLECTOR £3.2.2**

Splendid supplement to any capacitor-type flashgun. Complete with rubber-mounted clamp, ball and socket joint, accessory shoe and 5 ft extension lead in zip case.

**KL FLASHGUN £3.9.2****KK FLASHGUN £2.11.5**

(Similar to KL but with lightweight plastic fittings.)

**AGFA LIMITED**

DEER PARK ROAD . WIMBLEDON FACTORY ESTATE . LONDON . SW19 . CHerrywood 1121



If personal service and faultless workmanship are required

U·M·P
is the answer

Have you contacted
U·M·P PLASTICS *for*
your requirements in
MOULDED PLASTIC CONTAINERS?



*For Tubes
and Plastics*

WHY NOT TRY THE
U·M·P
WADLESS CLOSURE?

- NO LOOSE CAPS
AFTER FILLING
- A PERFECT CLOSURE

Tube with U.M.P.
"Weltex" Seal and
"Decora" Shoulder
finish.

UNIVERSAL METAL PRODUCTS LTD.

SALFORD 6 LANCs.

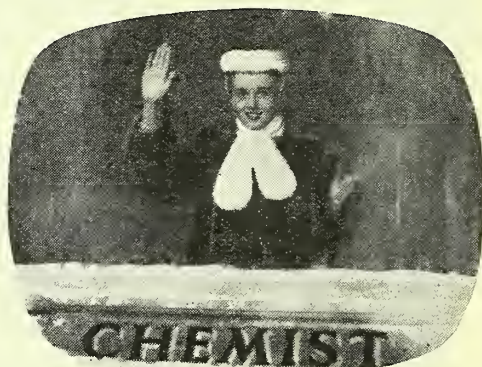
Telephone: PENDLETON 4444

LONDON OFFICE: ARGYLE HOUSE, 29/31, EUSTON ROAD, N.W.1. TEL. TERMINUS 2073

New **ASPRO** T.V. Commercial *invites customers into chemists*

HOW TO DRAW THEM INTO YOUR PHARMACY

No other television commercial gives such direct and powerful support to the retailer—to you. "... Go straight into your nearest chemist..." That's what it says. So get your tie-in with the new colourful, very attractive 'ASPRO' showcard (see details below). Nearly 1,400,000 people are now watching 'ASPRO' T.V. commercials. So make sure you are ready to take full advantage of this unique T.V. support—*stock and display 'ASPRO'.*



Read the script

- 1 Winter—time for colds and 'flu
- 2 Time to go straight into your nearest chemist...
- 3 ... for 'ASPRO'—yes 'ASPRO' plus YOU beats colds and 'flu

*** CASH YOUR DISPLAY BONUS CARDS
AND TIE IN WITH THIS 'ASPRO' T.V. COM-
MERCIAL BY DISPLAYING THE 'ASPRO'
T.V. SHOWCARD ILLUSTRATED**



Use this coupon

TO ASPRO LTD., SLOUGH, BUCKS.

Please send me the new 'ASPRO' T.V. showcard, which I undertake to display for a fortnight between and

I attach..... Display bonus cards
ASPRO LTD will remit cash for all bonus cards enclosed

NAME

ADDRESS

COUNTY

BLOCK LETTERS PLEASE

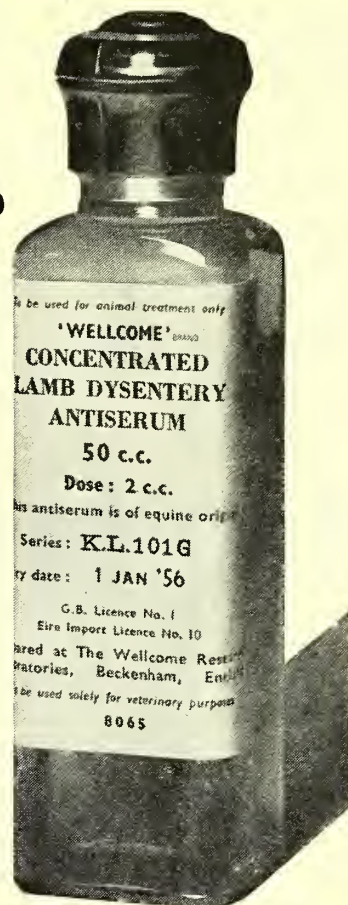


**'ASPRO'+YOU
BEATS COLDS
& 'FLU**

WANTED within 12 hours

'Wellcome' Concentrated Lamb Dysentery Antiserum should always be to hand. It must be administered to lambs within 12 hours of birth. For this reason, pharmacists should lay in stocks well before the lambing season starts.

The antiserum—used with unvarying success on countless farms in previous lambing seasons—gives an excellent level of protection against dysentery in lambs. In addition, it bestows immunity against pulpy kidney disease during the first three to four weeks of life. A sound investment for farmer and for pharmacist, the antiserum is supplied in rubber-capped containers of 50 c.c. (25 doses) at a list price of 28/-. Showcards, leaflets and advertising stereos are all available to stimulate your sales. National advertising in the farming press will extend from January to March.



... of their arrival



'WELLCOME' BRAND
Concentrated
LAMB DYSENTERY
ANTISERUM

PREPARED AT THE WELLCOME RESEARCH LABORATORIES, BECKENHAM, ENGLAND



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

Touch & Go.....

—the theme of our National advertising campaign.

We are daily telling millions that pain caused by

BACKACHE • LUMBAGO

NEURALGIA • RHEUMATISM

• STIFF NECK • STRAINED MUSCLES

quickly goes if given a rub of RALGEX Solid Embrocation in stick form.

display Ralgex

and prove in your own shop that if seen—easy to examine—easy to *touch*—sales go up and up. Ralgex is a first-class pick-up repeater line.

Now regularly advertised in a wide range of London and Provincial Newspapers, also on screens of London and Provincial Theatres.

Very attractive show material gladly sent on request

PHARMAX LIMITED : GRAVEL HILL : BEXLEYHEATH • KENT



Satisfies everyone

Some people prepare for winter with a course of Multivite in the autumn, others defer protection until winter is upon them. But one characteristic is shared by all—they buy where they see Multivite displayed. A new showcard is available for the asking.

		TRADE	RETAIL
Bottles of	50 pellets	- 2/4	3/6
" "	500 "	- 14/6	21/9
" "	1000 "	- 27/6	



'MULTIVITE'

PELLETS CONTAINING VITAMINS A, B₁, C AND D₂

TRADE MARK

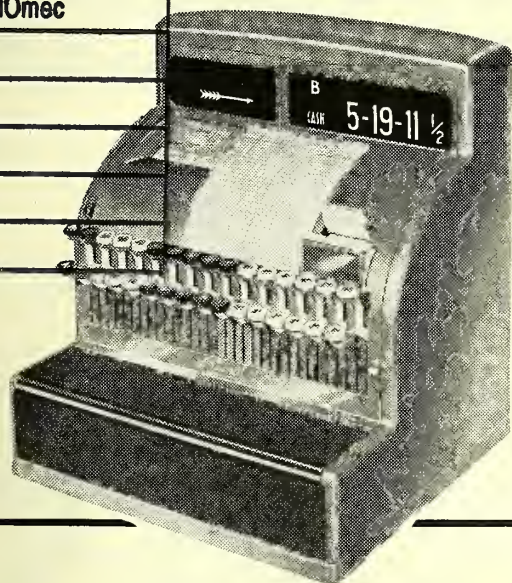


STRAIGHT to the POINT

Information to prevent errors and information to reveal errors are first essentials in the operation of any business. In the absence of complete, reliable information, costly errors are hidden or covered up. Temptation threatens. Doubt and indecision prevail.

The vigilant National—all-observing, all-recording, all-remembering and all-revealing—keeps everything under CONTROL...all transactions...all the time.

WELMOMEC



- ▶ BOLD, white on black, wide-angle indication—reading left to right, front and rear.
- ▶ AUTOMATIC, permanent record of all transactions: Last 9 items always visible.
- ▶ AUTOMATICALLY PRINTED customers purchase record

Model **132(7)2**
(with Two-totals printed)



TRUST ALL YOUR TAKINGS
TO THE VIGILANT

National
Rev. T.M.

THE NATIONAL CASH REGISTER COMPANY LIMITED
LONDON and all principal business centres throughout Britain and the World



THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 165

January 14, 1956

No. 3960

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EDITORIAL AND PUBLISHING OFFICES

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

Branch Offices:

BIRMINGHAM, 2: 111 New Street.

Phone: Midland 2921

GLASGOW: 35 Kingslynn Drive, LEEDS, 16: 32 Wynford Rise,

King's Park, S.2.

West Park. Phone: Leeds 78438

Phone: Langside 2813

ANNUAL SUBSCRIPTION, which includes The Chemist and Druggist Diary and Year Book, £2. Single copies one shilling each.

MEGGEZONES



help your customers
to weather the winter

free from coughs, colds and catarrh

MEGGEZONES



national advertising in
the press, on posters

and cinemas, maintains high sales

MEGGEZONES



should be prominently
displayed by chemists
particularly at the present time



The CHEMIST AND DRUGGIST

Volume 165

JANUARY 14, 1956

No. 3960

Diseases and Loss of Work LONDON COUNTY MEDICAL REPORT

THE diseases that cause the greatest loss of working life are those of early infancy, followed by cancer, diseases of the heart, violent causes and pneumonia and bronchitis.

That is stated in the recently-published report of the London County Council's medical officer of health and principal school medical officer for 1954. The report gives statistics relating to the loss of years of working life (taken as ages fifteen to sixty-four years) per 10,000 total population for certain diseases.

The number of cases of diphtheria in London continues to decline and in 1954 there were only four confirmed notifications of the disease and no deaths. There was a smaller incidence of whooping cough than for some years past and only four deaths from that disease. The notifications of scarlet fever were the lowest recorded since 1941 and there were no deaths. The fatality rate for measles and for diarrhoea and enteritis in children under two years of age continued to decline and the deaths registered during the year from those causes were the lowest on record. Deaths attributable to influenza fell sharply from 514 in 1953 to eighty-three in 1954, which was the lowest figure since 1948. There was a comparatively low incidence of poliomyelitis. Notifications of dysentery were the highest recorded, the heaviest incidence being found among children of pre-school age. The report includes a detailed account and statistical data relating to recent trends in the mortality and morbidity of tuberculosis in London. In 1954 the chest clinic registers recorded 37,624 cases. The routine vaccination using B.C.G. of thirteen-year-old schoolchildren found to be susceptible to tuberculosis was inaugurated during the year. About 25 per cent. of parents withheld their consent to vaccination but it is hoped that as the benefits of those preventive measures become more widely appreciated, more and more parents will take advantage of the arrangements.

Of children whose parents consented to vaccination, only 15 per cent. of those not in contact with a known case of tuberculosis were found to be positive reactors. There was an increase in the number of primary immunisations against diphtheria from 36,004 in 1953 to 47,621 in 1954. The estimated percentage at the end of the year of children under five who had at any time been immunised against diphtheria was about 55 per cent. During 1954 about a half of all London children under one were vaccinated against small-pox. The report is published by

the London County Council, Record Room (B.21), County Hall, London, S.E.1, price 2s. 6d.

P.A.T.A. Staff Dinner

RETIREMENT GIFTS FOR TWO

TWO members of the staff of the Proprietary Articles Trade Association who are retiring received presentations at a Christmas dinner party given by the Association in London on December 22, 1955. MR. D. A. REES (president) proposed the toast of the staff. Responding, MR. D. W. PAYN (assistant secretary) thanked the president and council for their hospitality. The president made the council's presentation of travelling clocks to Misses E. L. Worraker and L. N. Lewis. Miss Worraker, said THE PRESIDENT, had been with the Association for twenty-nine years, and before that had been secretary to Sir William Glyn-Jones when he was secretary and registrar of the Pharmaceutical Society. Miss Lewis had been an outside representative and investigator for twenty-five years. The president thanked them for their loyalty and long service and wished them happiness in their retirement. THE SECRETARY (Mr. H. E. Chapman) added his tribute. Before dinner, the party attended a theatre.

Industry in Atom Age

CHANGES IN LOCATION ?

A COMPLETE change in the concentration of the world's centres of industry might be brought about by the advent of atomic energy, said MR. M. W. PERRIN (chairman, the Wellcome Foundation, Ltd.) on December 14, 1955. Mr. Perrin was speaking at the annual luncheon of Leicester chamber of commerce. He said that the location of industry would no longer be conditioned, to the extent that it has been, by the accessibility of coalfields or of oil- or water-power. Relatively small power units might be set up in parts of the world which were otherwise inaccessible for geographic or climatic reasons, and allow the development of important raw material sources at such sites, or specialised industrial operations there. MR. H. SENIOR (managing director, Cascelloid, Ltd.) said that in times when all its efforts should be devoted to the technical and social problems which were arising, in-

dustry was being badgered by political decisions on purchase tax, credit control, and monopolies control as Governments "blew hot and cold" without adequate knowledge or experience of industry and commerce.

Supplement to N.F.

DENTAL FORMULAS

A 2-PAGE supplement to the National Formulary, incorporating formulas that appear in the recently published Dental Practitioners' Formulary but not in the N.F. (see C. & D., January 7, p. 1) has now been issued. The items included in the supplement are:—Caps. amylbarbiton. sod.; collut. formaldehyd.; collut. sod. chlorid. co.; collut. zinc. sulph. et zinc. chlorid.; glycer. borac.; haust. chloral.; solv. pro collut.; tab. acid. acetylsalicyl. et quinin. co.; tab. pentobarbiton.

Doctor's Drug Samples

USED TO STOCK HIS DISPENSARY

A DOCTOR who, it was alleged, failed to collect the shilling prescription charge from patients for whom he dispensed medicines, told Worcestershire Executive Council on December 28, 1955, that he used free samples from drug houses to stock his dispensary. He did not feel justified in charging patients for them. He said that he received "literally hundreds" of samples and took a large supply with him on his visits. Although he did not consider the stocking of his dispensary with samples was a satisfactory method, it saved a lot of time and they were sometimes easier to give. He had a small stock of ordinary medicines, but having dispensed those for patients he was often presented with the difficulty of changing a £1 note. Sometimes the patients offered to bring the charge on the next visit. In such circumstances he found it difficult ever to collect the charge. He maintained he had paid over all the charges he had received. A report of a committee investigating the case stated that it did not object to the use of free samples but deprecated their use as a source of supply. The Council decided that £10—"a reasonably accurate estimate of the amount involved"—should be withheld from the doctor's remuneration.

British Association

NEW PRESIDENT'S VIEW

SPEAKERS at the next meeting of the British Association (Sheffield, August 29 to September 5) should endeavour at almost any cost to make their contributions intelligible to ordinary people. That view was expressed by Sir Raymond Priestley when he was inducted in London on January 6 as

this year's president of the Association. Sir Raymond said that he had been conscious since the 1955 meeting that the Association had been under fire. Perhaps unavoidably, through the fragmentation of science and the immediate urgency of disclosing scientific achievements as and when they occurred, there was a question whether the Association had not departed too far from its original objective — the broadcasting of scientific discovery to the layman at large.

Royal Society

BURSARIES SCHEME AWARDS

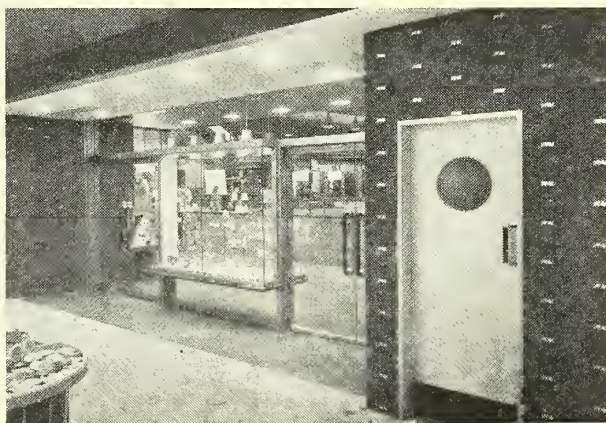
AMONG the recipients of awards made recently under the Royal Society and Nuffield Foundation Commonwealth Bursaries scheme are the following: Mr. R. G. Cooke (senior lecturer in organic chemistry, University of Melbourne), to enable him to study modern techniques in the isolation of natural products and in the determination of molecular structure, at Cambridge (February to August); Mr. G. C. Israel (senior lecturer in physical chemistry, University of Hong Kong), towards the cost of travelling to London to enable him to study modern methods of research in chemical kinetics and mechanisms at University College (September to March 1957); Dr. A. M. Stephen (lecturer in organic chemistry, University of Capetown), to enable him to work at Edinburgh in a study of carbohydrates, with emphasis on polysaccharide structure determination, and also of biochemical aspects of carbohydrate metabolism (January 1956 to January 1957).

Travellers' Benevolence

ANNUAL COURT OF GOVERNORS

THERE are 248 annuitants benefitting from the Commercial Travellers' Benevolent Institution it was reported at the annual court of governors in London on December 31. The annual report and statement of accounts showed that the 1955 appeal result totalled £9,419—£830 less than in 1954. Income exceeded expenditure by £1,083 compared with the 1954 surplus of £4,701. Beneficiaries received £343 more than in 1954. The report and accounts were adopted. Eight retiring members of the board were re-elected and the following elected:—Messrs. J. D. Clarke, Brighton, S. Harteg, Manchester, F. J. Jenkins, Brighton, W. G. Wells, Sheffield, Mrs. H. Davies, New Barnet, and Mrs. W. C. M. Perkins, Worcester.

LAMINATED PLASTIC FOR WALL PANELS: In addition to its uses as bench and table tops Waverite laminated plastic can be put to good decorative use in shop-fitting as wall panels. The illustration shows the material in use in a pharmacy in Hull. Waverite is made by Waverite, Ltd., 12 Grosvenor Gardens, London, S.W.1.



Cortisone

WILL PATIENTS DEMAND IT?

NOW that cortisone is freely available on prescription, patients will demand it as they did sulphapyridine, said Dr. H. C. C. VEITCH, at a recent meeting of Huntingdonshire Executive Council. Mr. G. H. JOHNSON asked if the public demanded expensive drugs because it was becoming more "drug-minded." Mr. H. OSBORNE said that it had been said that the general practitioner should not prescribe cortisone, and that it should be given through hospitals. Dr. J. A. W. MUSSON said that doctors were aware of the dangers of cortisone. When they were not satisfied, cases were referred to consultants experienced in the use of the drug.

Narcotics Consumption

RISE AS HEALTH SERVICES EXPAND?

A RISE in the consumption of narcotics as health services continue to expand is forecast by the Permanent Central Opium Board in its report for 1955 published in Geneva on January 8. The report says that consumption for medical and scientific purposes of most of the "manufactured" drugs continued to rise in 1954, but that fact afforded no reason for disquiet. But Governments should ensure that proper care was exercised in prescribing. The report points out that opium is still the main element in the illicit consumption of narcotics. There are millions of addicts, particularly in Asia, and the illicit traffic in opium also supplies the clandestine laboratories which manufacture almost all the morphine and heroin used by addicts. The report notes that with few exceptions the contracting parties to the existing international conventions have fulfilled their obligations. They have accounted for their legitimate supply of narcotic drugs, and any diversions represent only a small fraction of the illicit traffic, which is mainly supplied from clandestine production. The separate report for 1955 of the Drug Supervisory Body mentions efforts to bring about the abolition of heroin for therapeutic purposes. It points out that production and consumption of the drug have steadily fallen since international bodies began to recommend its prohibition. "It should, however, be noted," the report says, "that production has fallen more sharply than consumption, for in cer-

tain countries (Argentina, Finland, and the United Kingdom, for example) existing stocks are being consumed until they are exhausted." The report was completed before the decision to suspend the ban on the use of heroin in Britain.

Silicones for Industry

FILM SHOWS AT LONDON EXHIBITION

ENTITLED "Silicones for Industry" an exhibition is being staged by Midland Silicones, Ltd., at the Tea Centre, Lower Regent Street, London, S.W.1, February 7-18. Full details of the history, production and expanding applications of silicones are being illustrated by working exhibits and film shows which are being given throughout each day. Messrs. Midland Silicones were the first British producers of silicones. Hours of opening are 10 a.m. to 6 p.m., admission free.

SCOTTISH NEWS

National Health Service

CONSOLIDATED REGULATIONS

THE National Health Service (General Medical and Pharmaceutical Services) (Scotland) Regulations, 1955, which came into operation on December 31, 1955, consolidate the principal regulations made in 1948 and the various amending regulations made since that year, together with the relevant provisions of the National Health Service (Charges for Drugs and Appliances) (Scotland) Regulations, 1952. No substantial changes are introduced. The regulations are published as Statutory Instrument 1955, No. 1942 (S. 148), available from H.M. Stationery Office, price 1s. 9d.

IRISH NEWS

Examination Results

SUCCESSSES IN NORTHERN IRELAND

SUCCESSFUL candidates in the Final Part II Qualifying examination of the Pharmaceutical Society of Northern Ireland held in December 1955 were: Elizabeth B. Ashcroft, Edward J. Crossin, Peter G. Deeney, Bridget M. R. Donnelly, James M. Dougan, Mary A. Duddy, Alan I. Frew, Samuel E. Fullerton, John G. Hutchinson, Eileen A. M. Johnston, Isobel Kelly, Edward McClurg, John F. McConville, Joseph P. McErlean, Felix McNally, O. J. Mackintosh, Mary E. Maguire, James A. Murphy, James J. Murtagh, John C. O'Brien, Kathleen G. O'Neill, Helen Roulston, Hilda M. Sherwood, Eleanor M. Welsh.

The following were successful in the Final Part I Qualifying examination: Mary E. Allen, Patrick F. Bartley, Kathleen B. Bradley, Sheila M. Comerton, Elizabeth L. Connolly, William R. Davidson, Patrick J. Donnelly, Charles J. Foy, Anne H. Gault, John W. J. Hogg, Sheelagh E. Jennings, Evelyn Kells, Leo M. Lowry, John R. McAuley, Samuel R. McCormick, Hugh C. McNulty, Ita Maguire, Mary J. Millar, Samuel Moore, Desmond T. H. Ryan, Francis J. Sharkey, Josephine F. Waddell, Michael O. Walsh, William J. Warnock.

NEWS IN BRIEF

FOR the first time, a staff dance was held recently at the Carfin, Motherwell, Lanarks, factory of Parke, Davis & Co., Ltd.

CHILDREN to a total of 240 attended the annual party recently at the Cosham, Portsmouth plant of Johnson & Johnson (Gt. Britain), Ltd.

IN 1955 the total number of cases of poliomyelitis was 4,212 (201 deaths) compared with 1,224 (76 deaths) in 1954 and 2,626 (221 deaths) in 1953.

TWELVE cameras were stolen from the Coventry Street, Piccadilly, London, W.1, branch of Ascotts Pharmacies, Ltd., during the Christmas holiday.

A ROBOT salesman and rocket travel to explore sales possibilities in other planets were "stunts" put on at the annual sales conference of D. & W. Gibbs, Ltd., held in London on December 21 and 22, 1955.

A CHAIR of chemical engineering has been established in the faculty of technology, Manchester University; to it Dr. Frank Morton (professor of chemical engineering, Birmingham University) has been appointed.

RECENTLY elected officers of the British Tar Confederation are: *President*, Sir Harold C. Smith; *Treasurer*, Mr. L. W. Blundell; *Chairman, Executive Board*, Mr. H. F. H. Jones; *Vice-chairmen*, Messrs. R. H. E. Thomas and S. Robinson.

EXPERIMENTS which make use of radioactive isotopes, and which can safely be carried out in the laboratories of secondary schools, were demonstrated at the annual conference of the Science Masters' Association, held in London, December 28-31, 1955.

PRESENTATIONS of clocks were made recently by the medical staff, Chester Royal Infirmary, to Mr. Magnus Clark (retiring chief pharmacist) and to Mr. Ernest Shufflebotham (retiring assistant pharmacist) (see *C. & D.*, November 19, 1955, p. 575). The hospital staff also gave gifts.

BY smashing windows at Gee's Dispensing Chemists, Stockport Road, Ardwick, Manchester, on January 2, thieves stole twenty-four cameras and binoculars and electric shavers. A smash-and-grab raid also took place at J. Napier & Co., chemists, 129 Alexandra Road, Moss Side, Manchester.

PHARMACISTS wishing to become associate members of the Franco-British Pharmaceutical Commission should write to the secretary of the Commission, 17 Bloomsbury Square, London, W.C.1, for application forms (see *C. & D.*, November 12, 1955, p. 557). The first list closes on February 18.

MR. Glyn Francis Downes (North-west Kent College of Technology, Dartford) has passed the University of London intermediate examination in pharmacy held in November 1955, and Messrs. Navroze Cawas Chenoy (Sunderland Technical College) and Subhaskumar Mallick (private study) have qualified as advanced students for admission to the University of London B.Pharm. examination.

TOPICAL REFLECTIONS

By Xrayser

Accidental Poisoning

The increasing awareness of the need to strive for every possible prevention of child-poisoning is very much in evidence at the present time, and much as pharmacists would like to assist in any campaign devised to reduce the incidence of accident, there seems to be no simple way of eliminating the hazard. That drugs in any form which normally are labelled poison and kept in a locked cupboard in the pharmacy should reach the home with no indication that they are dangerous seems, on the face of it, to be wrong, particularly as they leave the seclusion of the locked cupboard to find themselves on a table at meal-times, or on any convenient ledge in the house. Some of the more potent preparations which may prove attractive to children are used in illnesses that have their origin in mental stress, and any warning attached to the medicine should be such as not to alarm the person for whom the treatment is intended. For that reason I feel attracted by the suggestion in your editorial article on p. 16, to the effect that all medicines, without any distinction, should carry some wording to convey the need for careful storage. Whether it should go on to the bottle or package direct or be put on to the outer wrapping is a question pharmacists might discuss. An instruction in the form of a label stuck on to the white wrapping paper might bear the words: "This is a MEDICINE—put it in a safe place immediately. Keep out of the reach of children." A verbal warning could also be given.

Giving a Service

I am glad to read that it is your intention to continue the discussion started at the recent conference at Southampton, by a series of articles on the future of pharmacy as visualised by pharmacists in different fields and varying districts. Such contributions, carefully thought out at leisure, should give a good picture of the situation. I note that your first contributor discusses the question of adequate service and refers to the large crowds which gather in the "twenty-four hours' service" pharmacies in the large cities between 6 p.m. and midnight. He points out that such service is at present given mainly by multiple concerns, and that is true. Economically, the multiples can engage staff for a shift-system, where the scheme can be made to pay in populous areas. But it has always seemed to me inconsistent with the principle of service that only the people in large cities are deemed in need of late dispensing. The fact is that the private pharmacist has for generations given attendance on Sundays—quite uneconomically—where the large stores have closed their branches completely; and that in small towns, where the individual need of the patient must be the same, nothing has been done in the evenings by the multiples. The position is fairly clear. Much of what is being done at night could come to the family chemist the following morning, and would but for the opportunism displayed by large interests.

British Standards

The evening meeting of the Pharmaceutical Society, with its discussion on standards, brought out some good points in discussion. I sympathise with the speakers who have had difficulty in pouring from measures, particularly the large ones which almost spray the last ounce or two of liquid. It seems to me that the fault is of recent origin, for I have no recollection of the problem in my younger days, and indeed that is confirmed by a very old 10-oz. measure which has survived when others have had to be replaced with varying degrees of rapidity. Another source of trouble in recent times is, in my experience, the variety of bottlenecks. It seems, looking back, that one could use a 4-oz. cork in a 4-oz. bottle, an 8-oz. in an 8-oz. bottle, and so on. But today the variation in bottles of different manufacture is great enough to upset ease of selection of corks. I have found a pint cork necessary for a 12-oz. bottle, and a 16-oz. neck that could be fitted with a 12-oz. cork. Again I may be faulty in my recollection, but it seems to me that the variation in neck is greater today than it was twenty years ago.

OVERSEAS NEWS

EGYPT

Drug Peddlers Gaoled for Life

DRUG trafficking is being treated as more serious than murder in Egyptian courts according to recent reports. In one case at Alexandria assizes on December 13, 1955, six men were sentenced to life imprisonment with hard labour and fined £3,000.

GERMANY

Wage Dispute Continues

CHEMICAL firms in the regions of Aachen, Dusseldorf and Cologne are increasing the wages of their 120,000 employees by 8.5 per cent. with effect as from November 1, 1955. Chemical workers, however, have refused that increase and have decided to pursue their claim for a 15 per cent. rise.

AUSTRALIA

Salk Vaccine to be Made

AUSTRALIA has decided to make the Salk poliomyelitis vaccine but is not issuing it for use until it has been thoroughly tested. That was recently stated by Sir Macfarlane Burnet (an Australian virologist). He said that it was proposed to immunise children with the vaccine when they first enter a school at the age of five or six.

CANADA

Vaccine Distribution Starts

DISTRIBUTION of Salk poliomyelitis vaccine for the 1956 inoculation programme is beginning in January, a Canadian Health department official stated on December 30, 1955. The department expects enough vaccine to be available to give about 880,000 children who received two injections in 1955 a third shot, and two shots to another 2,000,000 not yet vaccinated.

CUBA

Tetracycline Patent Injunction

A CUBAN court has granted Chas. Pfizer & Co., Ltd., an injunction against E. R. Squibb & Sons Inter-American Corp., prohibiting the sale, distribution or use of tetracycline. The decision was based on an action for patent infringement instituted by Messrs. Pfizer in September, 1955. The company has two Cuban patents on tetracycline, one containing process claims covering the production of tetracycline by direct fermentation; and the other containing product claims covering the manufacture, use or sale of tetracycline regardless of the method of production or type of formulation.

NEW ZEALAND

First Maori Pharmacist

THE first Maori to qualify as a pharmacist in New Zealand is Mr. Hiwinui Heke who recently passed the Pharmacy Board's final examination. A special letter of congratulation was sent to Mr. Heke by the Board.

Antibiotic Held in Reserve

RESTRICTIONS have been imposed in New Zealand on the use of erythromycin. Mr. J. R. Hanan (Minister of Health) has announced that from

February 1 the drug will be available only through hospitals and will be reserved for the treatment of diseases which do not respond to other antibiotics. The Minister stated that nine babies in a Christchurch hospital had died of a germ which had become resistant to every available antibiotic except erythromycin. Such infections had become disturbingly frequent in and outside New Zealand, apparently through an indiscriminate use of "wonder drugs." His advisers held that it was most important to keep one or more antibiotics in reserve, and erythromycin appeared to be the most suitable.

BECHUANALAND

Field Study of Diseases

A PERMANENT field survey station is being set up in Bechuanaland Protectorate for the study of sources and carriers of diseases, some of which, suspected of originating in the territory, are spreading to South Africa. The South African institute of medical research and the Bechuanaland authorities are co-operating in the venture. The station will have its own laboratory at which studies of parasites collected in the territory will be undertaken. Dr. F. Zumpt (senior entomologist, South African institute of medical research) is establishing the station and conducting preliminary surveys in the territory. The station will be near Francistown.

UNITED STATES

Gift to University

RARE books and manuscripts to the value of \$5 millions (£2 millions, approximately) have been presented to Indiana University by Mr. J. K. Lilly (vice-chairman, Eli Lilly & Co.). Included among the scientific works, in first or early editions, are the writings of Euclid, Copernicus, Albert Einstein and Jonas E. Salk.

Drug Trade's High Purpose

SPEAKING at a recent meeting of the National Association of Retail Druggists, the U.S. Commissioner of Narcotics (Mr. H. J. Onslinger) said that the drug trade's adherence to high purpose stood as "a mighty bulwark" against the threat of illicit drug traffic. In 1954 only twenty-two pharmacists were convicted of narcotic law violations and three others were found to be addicts. The Commissioner said he believed that the scheme of dispersal of narcotics in pharmacies was mainly responsible for thwarting addicts. Although stores had been ransacked to obtain narcotics, there had been no losses.

Drug Addiction and Crime

DRUG addiction was responsible for nearly 50 per cent. of all the crimes in America's major cities and for 25 per cent. of all those reported in the nation. That was stated by Senator P. Daniel (head of a Senate subcommittee on illicit drug traffic) recently. The illicit traffic in drugs had trebled since the end of the 1939-45 war, he said,

and there were now "at least 60,000" addicts in the country, 13 per cent. of them under twenty-one years of age. Senator Daniel asked for legislation allowing the death penalty for smugglers and peddlers of heroin in extreme cases. Heroin was used by 80 per cent. of America's drug addicts, he said.

RUSSIA

Progress in Medical Research

ASKING for bigger appropriations for medical research from the Supreme Soviet of Russia on December 26, 1955, the president, Soviet academy of medical science, said that "spectacular progress" was now being made in medicine. He is reported by Tass, the Soviet news agency, as having said that there had been indisputable successes in combating tuberculosis — especially tuberculous meningitis. Soviet scientists had developed new medicines such as highly effective antibiotics, and Soviet surgeons had worked out new methods for the surgical treatment of heart diseases and diseases of the vegetative nervous system. In addition there had been notable research in the treatment of high blood pressure.

FRANCE

Report on Drug Deaths

STALINON, a tin sulphide preparation for boils and abscesses, which caused the deaths of over 100 patients treated with it in France in 1954, was prepared to a different formula from that presented by the makers to the French Health Ministry, according to a report published in France recently. The report was prepared by a panel of experts, at the request of the public prosecutor. Sales of stalinon were banned in June 1954, when doctors reported that patients treated with it were dying from a form of brain inflammation resembling encephalitis. The experts' report says that the drug, marketed for the first time in January 1954, should have been given a special permit as it had never been manufactured before. Directors of the laboratories where stalinon was made are awaiting trial on charges, preferred in December 1954, of causing deaths and injuries through carelessness.

JAPAN

Patent Infringed Decision

TOKIO district court has ruled in favour of an American firm which filed a patent right suit more than a year ago against a Japanese firm over the manufacture and sale of chloramphenicol. The court ordered the Yamanouchi Pharmaceutical Co. to suspend the manufacture and sale of Paraxin. Parke, Davis & Co., Detroit, and the Sankyo Pharmaceutical Co., had claimed in the suit that Paraxin was identical with the Chloromycetin they were manufacturing under a technical tie-up. Paraxin has been manufactured by Yamanouchi under a tie-up with a West German firm. The court also ordered stocks of Paraxin to be placed in official custody.

CONTROL OF DRUGS IN HOSPITALS

Joint memorandum by Pharmaceutical Society and Guild of Public Pharmacists

A MEMORANDUM on the control of dangerous drugs and poisons in hospitals has been published jointly by the Pharmaceutical Society and the Guild of Public Pharmacists. The memorandum was submitted in July 1955 to a subcommittee of the Central Health Services Council which is inquiring into the custody and issue of Dangerous Drugs and schedule poisons in hospitals.

First Schedule Poisons

The text of the memorandum is summarised below:—

The Society is of the opinion that standard Regulations applying to Dangerous Drugs and Poisons should now be formulated in detail.

The Society is of the opinion that First Schedule poisons for use in hospitals should be obtained only on an order signed by a pharmacist, or, where there is no pharmacist on the staff, a medical officer or the matron, the consignment being addressed to the person who signed the order.

It is felt that there are many instances at present where prescriptions for the supply of First Schedule poisons to out-patients are not kept in accordance with requirements. The pharmacist should not be responsible for the physical custody of those records but they should be readily available to him. It has been noted that hospital records for patients occupying private beds are not National Health Service records; instead they remain in the custody of the consultant in charge of the case and as such are not necessarily available to the pharmacist. In those circumstances the records are not kept for the period and in the form required by the Regulations. It is noted that the use of a container "distinguishable by touch" for poisons is discretionary for medicines for external use and not a legal requirement in respect of poisons supplied from hospitals to out-patients (similarly it is discretionary for the supply of dispensed poisons in general practice). It is felt that the use of a container "distinguishable by touch" should be obligatory and that the description "glass containers" at present used in the Regulations should be amended to read "container."

The Society is of the opinion that any procedure for the issuing of medicinal substances from the pharmaceutical department should be standardised and prescribed in detail in the Regulations. Again it is desirable that a standard form of written order should be prescribed in detail in the Poisons Rules. The status of the person who signs that order form is of particular importance.

In the opinion of the Society there is no good reason for any differentiation in hospitals between poisons and other medicinal substances. It is desirable that all medicinal substances which are for internal or external use should be treated with equal care. All medicinal substances which are for internal or for external use and all

preparations intended for use as anti-septics should be kept in a cupboard or room reserved for the purpose and from which foodstuffs and domestic cleaning materials are excluded. The cupboard should be locked and the key kept in the possession of the sister or nurse in charge of the ward. All the containers used should be labelled with the name of the hospital. All substances for external use should be kept on a shelf or in a compartment from which medicines for internal use are excluded. The containers of all substances for external use should be labelled "not to be taken" in addition to any other wording required by the Poisons Rules. Substances for external use only should be stored in containers which are distinguishable by touch. Reagents for urine testing and similar purposes may be kept in a separate cupboard or on a shelf in the room set apart for such tests.

Medicinal substances dispensed for individual patients should on each container bear an indication of the nature of the contents, the name of the patient, the name or number of the ward, and the date on which it was supplied to the ward. All such medicinal substances dispensed for individual patients should be returned to the pharmaceutical department immediately after the discharge of the patient.

Labelling for the Ward

Medicinal substances supplied as ward stock should bear the name of the drug which should be the pharmacopœial name or the approved name for the substance. All other names used for convenience should be subordinate in size and character to the official name. The label should also show the name of the ward and the date on which it was supplied to the ward. There is much to be said for indicating the quantity supplied, but there are circumstances in which that may not be practicable. Where a manufacturer's original package is supplied the name of the ward and the date on which it was supplied should be added.

Poisons Rule 29 (4) which deals with the inspection of poisons cupboards should be re-written as follows:—

"All arrangements for the care and custody of Poisons, 'poisonous substances' and medicinal substances should be the responsibility of a pharmacist who shall inspect these arrangements at intervals not exceeding three months."

In cottage hospitals or institutions where there is no pharmacist, a pharmacist employed in the Hospital Group or, failing that, a pharmacist in general practice should be appointed for that purpose. The Society feels that at the present time arrangements for the inspection of poisons cupboards in such cottage hospitals and institutions are unsatisfactory.

Substances controlled by the Dangerous Drugs Act should be kept in a locked compartment reserved solely for the storage of such substances where

they are dispensed for individual patients or issued as ward stocks. Such containers should bear the letters "D.D.A." in red, the name of the drug or the composition of the preparation, the quantity originally supplied in the container, and the date of supply.

A full record should be kept by the sister in charge of the ward showing the following details of the administration of drugs controlled by the Dangerous Drugs Act:—(i) Date of issue, (ii) patient's name, (iii) drug administered, (iv) dose administered, (v) time of administration, (vi) initials of nurse administering the drug, (vii) initials of witness.

The Society agrees with the statement contained in paragraph 46 of the Linstead Report. It is the responsibility of the nursing staff to ensure that an adequate stock of poisons and Dangerous Drugs is maintained in the wards and it is the responsibility of the nursing staff to ensure the safe custody and proper use of this material. It is for the pharmacist to see that the material is fit to be used, to recommend that unnecessary stock is removed and to indicate what labelling and storage conditions should be observed.

Medicinal substances should be supplied only on the signed order of the sister in charge of the ward or on the prescription of a medical officer of the hospital for an individual patient, except that, in emergency, supplies may be ordered by telephone, a written order being issued within twenty-four hours.

Requisitions for substances controlled by the Dangerous Drugs Act should be in the form required by the Act and the counterfoil should be filed in the pharmacy department and kept for a period of not less than two years.

Requisitions for substances not controlled by the Dangerous Drugs Act should be filed for a period of not less than three months.

LEGAL REPORTS

Hemp for 1,300 Cigarettes

At Lambeth magistrates' court recently, prosecuting solicitor alleged that enough Indian hemp to make 1,300 cigarettes had been found on a Brixton coloured man, George Anderson. Anderson pleaded guilty to being in unlawful possession of 6,670 gr. of Indian hemp. He was fined £20 with £7 7s. costs, or three months' imprisonment in default.

Pharmacy Act Fine

At Lambeth, London, magistrates' court, recently, Frederick Merrell, Thorpe Bay, Essex, described as a herbalist, was fined £6, with £4 4s. costs, for selling a substance recommended as a medicine when not qualified to do so. Merrell was stated to have stripped himself to the waist at a market at East Street, Walworth, to demonstrate his physical fitness and to sell, at 2s. 9d. each, packets of tablets for the relief of rheumatism and kidney trouble.

NEW COMPANIES

P.C.—Private Company; R.O.—Registered Office.

H. COATES & CO., LTD. (P.C.).—Capital £2,000. To carry on the business of chemists, druggists, opticians, etc. Director: Harold T. Coates, M.P.S. R.O.: Shop No. 6, Queen Elizabeth Way, Colchester.

C. K. WHITEOAK, Ltd. (P.C.).—Capital £1,000. To acquire the business of a chemist and druggist carried on at 6 Burnley Road, Mytholmroyd, Yorks, as C. K. Whiteoak. Directors: Maud Whiteoak and John C. Whiteoak.

EMERIC A. ECCLES, LTD. (P.C.).—Capital £1,000. To acquire the business of a pharmacist carried on by Emeric A. Eccles at 198 Union Road, Oswaldtwistle. Directors: Emeric A. Eccles, M.P.S., and Margaret Eccles, M.P.S.

E. M. CHEMICALS, LTD. (P.C.).—Capital £7,500. To carry on the business of manufacturers of and dealers in chemicals and drugs, etc. Directors: Robert D. Swan and Thomas H. Campbell Wardlaw, R.O.: 9 Market Street, Newcastle-on-Tyne.

L. L. HERBERT, LTD. (P.C.).—Capital £100. To acquire the business carried on by Leslie L. Herbert, M.P.S., at 79 Garron Lane, South Ockendon, Essex. Directors: Leslie L. Herbert and Victoria Herbert, R.O.: 36 Southampton Street, London, W.C.2.

UNITED CHEMICALS (ULSTER), LTD. (P.C.).—Registered in Belfast. Capital £5,000. To carry on the business of manufacturers of drugs and medicinal products, etc. Subscribers: Nellie Morrow, 18 East Bridge Street, Enniskillen, and Mable Elliott.

VAPAR CHEMICAL CO., LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in chemicals, gases, drugs, etc. Directors: Samuel Wachsmann, Benjamin Ballon and Eric Donaldson, R.O.: 415 Oxford Street, London, W.1.

STRATTON CHEMICALS, LTD. (P.C.).—Capital £100. To carry on the business of manufacturers of and dealers in chemicals, etc. The first directors are to be appointed, Solicitors: Herbert Oppenheimer & Co., 20 Cophall Avenue, London, E.C.2.

GRAND PARADE PHARMACY, LTD. (P.C.).—Capital £2,000. To carry on the business of manufacturing, pharmaceutical and general chemists, etc. Directors: Sydney S. Jacobs, M.P.S., and Violet M. Jacobs, R.O.: 9 Grand Parade, St. Leonards-on-Sea, Sussex.

HERBERT & MILLER, LTD. (P.C.).—Capital £5,000. To carry on the business of chemists and druggists, opticians, etc. Directors: William A. Herbert, M.P.S. (director, Herbert & Herbert (Chemists), Ltd.), and Arthur R. K. Miller, M.P.S. R.O.: 108 Bromham Road, Bedford.

VIGEL PRODUCTS, LTD. (P.C.).—Capital £150. To carry on the business of manufacturing, wholesale and retail chemists, etc. Directors: George E. F. Burr, M.P.S., and Gwendoline H. M. Burr, M.P.S. (directors, A. A. Ringer, Ltd.), and Charles E. Burr, R.O.: 26 Park Row, Nottingham.

Company News

Previous year's figures in parentheses

INTERNATIONAL BOTTLE CO., LTD.—Mr. F. A. De Smet has been appointed a director.

BRITISH SCHERING RESEARCH LABORATORIES, LTD.—Dr. P. G. Marshall, D.Sc., F.R.I.C., has been elected to the board.

GLAXO LABORATORIES, LTD.—Dr. F. J. Wilkins, M.Sc., F.R.I.C., an executive director, has been appointed to the board.

A MILLAR & CO., LTD.—Profit for the year ended October 31, 1955, after all charges is £14,460. Dividend on ordinary shares is 10 per cent. plus bonus of 4 per cent., less tax.

BAIRD & TATLOCK (LONDON), LTD.—Sir Bernard Keen, D.Sc., F.Inst.P., F.R.S., is temporarily taking charge of the company's research and development division.

BRAND & CO., LTD.—A final dividend of 25 per cent. to make 28 per cent., less tax, is declared on the ordinary capital for the year ended September 30, 1955. Trading profit was £381,647 (£311,109).

McKECHNIE BROTHERS, LTD.—Subject to the necessary resolutions being passed to increase the capital and create new Ordinary and A Ordinary shares, it is expected to make an offer for sale of A Ordinary shares early in February.

Voluntary Liquidation

EMION, LTD., research chemists (R.O.) 22 Great Smith Street, London, S.W.1. Liquidator: Mr. R. C. Gilbert, 30 Ely Place, London, E.C.1.

BRANCH AND ASSOCIATION MEETINGS

HEREFORDSHIRE

Price Cutting and the P.A.T.A.

ADDRESSING a meeting of the Herefordshire Branch of the Pharmaceutical Society on November 28, Mr. H. G. Moss (vice-president, Proprietary Articles Trade Association), after outlining the growth of the P.A.T.A. from its formation down to its present position—described his experiences while in America during the price-cutting "war," 1951-53. Mr. Moss said that there was then exposed the biggest fallacy—that in conditions of full employment and booming trade, such as existed in Britain today, price-cutting wars were unlikely to occur. "Nothing could be further from the truth," said Mr. Moss. He then described the "fantastic" lengths to which price cutting had gone in America when control was removed. That was in a country where there was full employment and where trade was booming. Mr. Moss said that much had been learned from the visit to Britain in July 1955 of Dr. J. W. Dargavel (chairman, United States Bureau of Education on Fair Trade) (see *C. & D.*, July 16, 1955, p. 56). Not the least important lesson was that the British collective system was more efficient, less cumbersome and much speedier in operation than the American one. The P.A.T.A. had convinced the Government that resale price maintenance

BUSINESS CHANGES

THE Glasgow office of THE CHEMIST AND DRUGGIST has moved to 35 Kingslynn Drive, King's Park, S.4 (telephone: Langside 2813).

KETTERING INDUSTRIAL CO-OPERATIVE SOCIETY, LTD., have opened a pharmacy at Co-operative House, Corporation Street, Corby.

MR. J. HENDERSON, M.P.S., 261 Station Road, Wallsend, has opened a branch pharmacy at 68 High Street East, Wallsend, Northumberland.

COLEMAN & CO., LTD., Norwich, have purchased the Gordon Moore tooth-paste business from Mr. Robert Pulton. Production has been transferred to Norwich.

MR. K. H. BROUGHTON, M.P.S., has transferred his pharmacy to 7 Broad Parade, Hockley, Essex (from Main Road, Ashingdon, Rochford).

THE old-established pharmaceutical business of P. Prosser Roberts, Ltd., North End, Croydon, has been closed. Mr. George Roberts, son of the founder of the business has taken a directorship in and the managership of, C. J. Reid, Ltd., 30 High Street, Eton.

Appointments

AYRTON, SAUNDERS & CO., LTD., 34 Hanover Street, Liverpool, 1, have appointed Mr. K. H. Davies their representative in south Manchester.

H. T. KIRBY & CO., LTD., Belton Road, London, N.W.2, have appointed Mr. W. Dawson-Lloyd their senior representative and sales supervisor of the whole of the company's southern territory.

operated as much in the public interest as in any other interest, but the fight which lay ahead, was to convince them that the Association's collective system of enforcement was the most satisfactory way of achieving that end.

JERSEY

Pharmacy and Psychiatry

THE relationship between psychiatry and pharmacy was discussed by DR. J. WISHART (medical superintendent, St. Saviour's hospital, Jersey) at a recent meeting of the Jersey Branch of the Pharmaceutical Society at St. Helier. He mentioned that methods of treatment had varied from physical to psychological and vice versa down the centuries, and that there was now a tendency to treat mental people on a colony basis—at Gheel in Belgium one in ten of the population was mental. Dealing with psychoanalysis, he referred to insulin comas and electrical treatment. The idea of the latter was to produce an epileptic convulsion. Years ago camphor had been found to give erratic convulsions, then in 1936 Cardiazol, a camphor derivative, was used. Dr. Wishart concluded his talk by describing the effects of chlorpromazine and reserpine. Reserpine appeared to work well in mental illness, leading to greater alertness, improvement in appetite and prevention of psychopathic over activeness.

MARRIAGE

BARBER—ALLEN.—At St. Nicholas Church, King's Norton, Birmingham, on January 7, Arthur A. Barber (governing director, Barber Electrical Services, Ltd., Leach Street, Birmingham, 16) to Margaret J. Allen (secretary of the company).

DEATHS

ALLARDICE.—On December 19, 1955, Miss Mary Ann Nicoll Allardice, M.P.S., c/o Charles Young (Chemists), Ltd., 150 Ann Street, Dundee, aged forty-three.

BEADSWORTH.—Recently, Mr. James Henry Beadsworth, M.P.S., The Pharmacy, 59 High Road, Bushey Heath, Herts, aged forty-three.

BIRD.—On November 18, 1955, Mr. Charles Arthur Bird, M.P.S., 3 Shirley Court, Sedley Rise, Loughton, Essex, aged fifty-five.

BONNER.—On December 28, 1955, Mr. Clifford Goodwin Bonner, M.P.S., 28 Methuen Road, Bournemouth, Hants, aged eighty-seven.

COOK.—Recently, Mr. William Henry Cook, M.P.S., Market Place, Faringdon, Berks, aged seventy-three. Mr. Cook had been in business as a chemist in Faringdon for more than fifty years.

COTTOM.—At his home, 24 Witham Road, Skelmersdale, Lancs, on December 24, 1955, Mr. William George Cottom, M.P.S., aged forty-nine. Mr. Cottom was a member of the staff of the Liverpool School of Pharmacy.

DOUGHTY.—On December 23, 1955, Mr. Thomas Herbert Doughty, Cholerton Lodge, Cholerton, Ampert, Andover, Hants, aged eighty-one. Mr. Doughty qualified as a chemist and druggist in 1898.

DYET.—At Bognor Regis, on December 23, 1955, Mr. Gilbert Dyet, M.P.S., 16 Highbury New Park, London, N.5, aged ninety.

EMMETT.—On December 31, 1955, Mr. Harold Emmett, M.P.S., 71 High Street, Brockmoor, Brierley Hill, Staffs, aged fifty-eight.

GREGORY.—On December 27, 1955, Mr. Charles Kingsley Gregory, M.P.S., 39 Cambray Court, Cheltenham, Glos., aged sixty-nine. Mr. Gregory was a former chairman and managing director of the United Chemists' Association, Ltd., Cheltenham. He resigned from that post in 1953. He was born in Boston, Lincs, and after qualifying in 1909 he started business in Dawlish, Devon. After being demobilised at the end of the 1914-18 war he went to Cheltenham, entering into partnership with Mr. H. B. Lloyd. In 1931 he sold his business and went into partnership in a century-old wine, spirit and grocery business, becoming managing director when a limited company was formed. During the 1939-45 war he joined the board of Messrs. U.C.A.L. As a Freemason, Mr. Gregory became Provincial Grand Master of Gloucestershire and Herefordshire in the Mark degree. He was a Past Master of the Perseverance Lodge, Cheltenham. He was for some years chairman

of directors of Cheltenham football club.

HART.—Suddenly, on January 3, Mr. James Mitchell Hart, M.P.S., 456 Paisley Road West, Glasgow, S.W.1, aged sixty-nine.

HIGGINS.—In an infirmary, on January 3, Mr. Clement William Higgins, M.P.S., 47 Market Place, Salisbury, Wilts, aged seventy-six. Mr. Higgins was senior partner of Higgins & Son, chemists, Salisbury. He was born at Northwood, Shropshire. He was employed as a pharmacist in Hastings, until in 1913 he moved to Salisbury to take over the old-established chemist's business of Read & Orchard. Among his part-time interests were shooting and golf. He is survived by his widow, one son (Mr. Norman Higgins, who is carrying on the business) and two daughters.

HOPKINS.—On January 6, Lady Jessie Anne Hopkins, R.R.C. Lady Hopkins was the widow of the late Sir Frederick Gowland Hopkins, O.M. (a former president of the Royal Society and a pioneer in vitamin research).

MATTHEWS.—Suddenly, on January 2, Mr. S. J. Matthews. Mr. Matthews was head of the research and development division of Baird & Tatlock (London), Ltd.

NAPIER.—On January 4, Mr. Duncan Scott Napier, M.P.S., 3 Marchhall Road, Edinburgh, aged seventy-six. Mr. Napier was a son of the founder of D. Napier & Sons, chemists, Edinburgh. He was keenly interested in botanical medicine. He is survived by two sons and a daughter. The business is being carried on by Mr. John R. Napier, a grandson of the founder.

PETT.—On January 8, after a short illness, Mr. F. A. Pett, of Slann & Davies, crude drug and gum brokers, 24 Lime Street, London, E.C.3.

ROBERTS.—On December 26, 1955, Mr. John Roberts, M.P.S., 1 Pembroke Place, Penydarren, Merthyr Tydfil, Glam, aged eighty. Mr. Roberts was in business at The Pharmacy, Penydarren, now owned by his son, Mr. O. E. Roberts, M.P.S.

TAYLOR.—On January 5, Dr. F. Sherwood Taylor, aged fifty-eight. Dr. Taylor was director of the Science Museum, South Kensington. He was a former curator of the Museum of the History of Science, Oxford. He was one of the founder members of the Society for the Study of Alchemy and Early Chemistry and a former president of the British Society for the History of Science.

WELLS.—Recently, Mr. Horace Stanley Wells, M.P.S., 169 Sprotborough Road, Doncaster, Yorks, aged fifty-two. Mr. Wells was a former manager of the pharmacy in John Street, Doncaster, of Doncaster Co-operative Chemists, Ltd., and at a later date held a similar post in Barnsley.

WILLEY.—Recently, Mr. Francis Joseph Willey, 107 Old Heath Road, Wolverhampton, Staffs, and formerly 2 Willenhall Road, Wolverhampton. Mr. Willey qualified as a chemist and druggist in 1908.

WILLIAMS.—On January 2, Mr. Henry Ivor Williams, 13 Heath Park Avenue, Halifax, Yorks. Mr. Williams qualified as a chemist and druggist in 1905. A former manager of the Halifax, Yorks, branch of Boots, Ltd., he had joined the company in 1911, taking charge of the branch in Llanelly, Carmarthens. After nineteen years there, he became manager of the Halifax branch in 1929. He remained there until his retirement in 1952. He is survived by his widow, four sons and a daughter.

PERSONALITIES

MR. C. P. VENABLES, M.P.S., is starting his thirty-first year of office as treasurer of Canvey Island ratepayers' association.

MR. J. W. DONALDSON, who has been a director of the Nobel division of Imperial Chemical Industries, Ltd., since 1940, retired from the company's service on December 31, 1955.

DR. E. ASHWORTH UNDERWOOD (director, Wellcome Historical Medical Museum) is the author of an article entitled "From Polypharmacy to Chemotherapy" in the January issue of *Discovery*.

MRS. A. GREENWOOD, M.P.S. (president of the Blackpool Branch of the National Association of Women Pharmacists), whose birthday falls on Christmas day, was the subject of a paragraph in the *Blackpool Gazette* series of newspapers on December 23. **MRS. JOAN LIND, M.P.S.** (secretary of the Branch), whose birthday also falls on Christmas day, was also featured in the paragraph.

MR. IAN CRAIG, the Australian cricketer who scored 145 runs in a recent match between Queensland and New South Wales, has passed his final examination in pharmacy at Sydney University. He is taking his formal examination to qualify in February. Mr. Craig played in the Test matches in England in 1953, and is considered a strong contender for a place in the team for the coming tour of England.

DR. F. J. WILKINS, who has been appointed to the board of Glaxo Laboratories, Ltd., joined the company in August 1949 as executive director in charge of the company's fermentation plants at Barnard Castle and Ulverston. Recently his responsibilities were extended to cover the operations of all the company's factories in the United Kingdom. Dr. Wilkins took the degrees of B.Sc. (London) in 1924, M.Sc. (London) in 1927, and Ph.D. (Cambridge) in 1929.

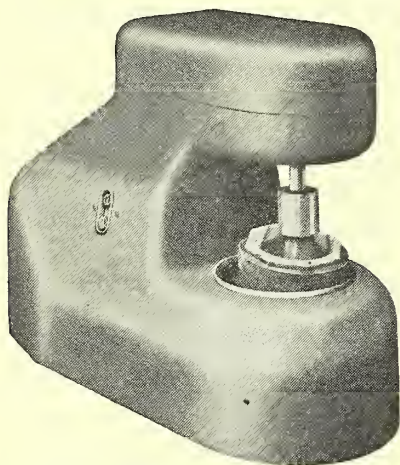
INQUEST

Suicide Verdict.—At a resumed inquest at Huyton, Lancs, on December 20, 1955, on William Redman, laboratory assistant, 44 Astley Road, Huyton, the coroner recorded a verdict that he had taken his life while the balance of his mind was disturbed. A Home Office pathologist said that death was due to barbitone poisoning. Redman must have taken between thirty and forty 1½-gr. phenobarbitone tablets.

INSTRUMENTS AND APPARATUS

Saving Time in the Dispensary.—Time spent in stirring is saved by use of one of the smaller members of a series of stirrers offered by Fluid Equipment Co., Ltd., 9 Dorchester Court, London, N.14.

Electrical Pestle and Mortar.—An entirely new electrically driven pestle-and-mortar grinder for the fine grinding of samples is being produced by Herbert Alexander & Co., Ltd., Charnmouth Street, Leeds, 11. The outstanding features of the machine are its rapid and efficient action. Driven by a



totally enclosed fractional horse-power motor and worm reduction-unit, pestle and mortar rotate in opposite directions, the former at 96 r.p.m. and the latter at 32 r.p.m. The mortar is fitted into a hardwood holder that rests freely on the sponge rubber bed of the carrier. The mortar thereby assumes an inclination to the horizontal plane under the pestle, giving even grinding pressure and concentrating the sample under the pestle, the centre line of which is offset to that of the mortar. The pestle is instantly retractable for withdrawal of the ground sample. In the standard machine the pestle and mortar are of polished agate. Alternative materials are supplied on request.

Hints on Care of Apparatus.—H. J. Elliott, Ltd., E-Mil Works, Treforest Industrial Estate, Pontypridd, Glamorgan, have produced "Notes on Care and Cleanliness of Volumetric Glass Apparatus." Copies are available from the company for the use of laboratory workers.

Low Actinic Glassware.—To meet a demand for a heat-resisting glass that will afford protection during the use of light-sensitive chemicals, James A. Jobling & Co., Ltd., Wear Glass Works, Sunderland, are offering in stained amber glass the majority of the items in their catalogue of laboratory and scientific glassware. The products are made of the normal Pyrex glass, but are subsequently stained to produce the low actinic effect. The colour becomes an integral part of the glass and cannot be removed except by the action of abrasives or hydrofluoric acid. A list of available amber-stained Pyrex is issued by the company.

Automatic Titrator.—Baird & Tatlock (London), Ltd., 14 St. Cross Street, London, E.C.1, have produced an instrument for carrying out Karl Fischer titrations automatically and it will be in production shortly. The apparatus can be used by a relatively unskilled operator, who can carry out the titration merely by pressing a button, the titration stopping automatically when the end point is reached. The burettes can also be refilled automatically by pressing a button. The instrument, the first of a series of B.T.L. Analmatic instruments, was shown on a recent commercial television programme entitled "The Scientist Replies."

Interchangeable Glass Apparatus.—The advantages of interchangeable ground glass joints for laboratory apparatus include freedom from contamination, a good vacuum jointing, and wide-bore connections. They also simplify assembly and save time and labour. The conical joint, the most popular, is available from Quickfit & Quartz, Ltd., 1 Albemarle Street, London, W.1, in sizes ranging from B7 to B55. The number of the joint indicates the approximate diameter of the ground surface in millimetres. B length is of the original length specified for such joints in a British Standards specification dated 1934; C length is half that length and D one-quarter. The B-length joint is most suitable for normal laboratory work, including vacuum distillation. Full-length joints were abandoned in the 1950 British Standards specification for ground-glass joints. More recently

spherical joints have come into common use. They are available in sizes varying from 2-mm. to 35-mm. bore and are intended mainly to give flexibility at strategic points in the apparatus. Adapters have been developed from spherical to conical joints to give the necessary freedom of movement. A further type of interchangeable joint is the flat flange, which is available in sizes from 2-mm. to 75-mm. bore. They are not often used, but find application in high-temperature distillation units. In the manufacture of Quickfit ground-glass apparatus heat- and chemical-resistant borosilicate glass is used. The glass is resistant to all chemicals except hydrofluoric acid, hot concentrated syrupy phosphoric acid, and alkalis. Glass which is about 1½ mm. thick (the average thickness used for laboratory ware) stands a thermal shock of 200/250° C.

A New Direct-reading pH Meter.—Electronic Instruments, Ltd., Richmond, Surrey, have produced in their model 23A pH meter an instrument with, they claim, perfected automatic temperature compensation, making the readings independent of changes in temperature of the solution being measured. That exclusive feature makes it unnecessary to standardise the electrodes at working temperature and apply corrections if the temperature limits are exceeded. A second feature is the provision of a higher output current (100 microamps per pH unit) for operating recording or control instruments. A new electro-pneumatic converter enables direct connection to be made to air-operated instruments. The model 23A is finished in chemically-resistant enamel.

MAINTENANCE AND MATERIALS

"Super-tough" Polystyrene.—Early in 1956 Monsanto Plastics, Ltd., London, S.W.1, are introducing Luxtrex toughened-11, a polystyrene that gives rigidity without reinforcement, is highly resistant to breakage, has good gloss, is easily moulded and is available in "dazzling" whites or brilliant colours.

Detergents for Industrial Use.—For cleaning floors, windows, fabrics, utensils, animals, glassware, etc., John Paterson, Ltd., Clensel Works, Orr Street, Glasgow, S.E., issue five Clensel products identified by initials: A soap liquid concentrate (S); liquid detergent (D); soap pine concentrate (P); insecticide concentrate (I) and germicidal concentrate. Each is issued in 1-gall. and 4-gall. containers. Tables of recommended dilutions are given in a booklet available from the company.

Thermoplastic Wall Tiles.—Thermoplastic tiles for walls are now made by The Marley Tile Co., Ltd. They are available in five attractive pastel shades flecked with a second colour. They do not chip or suffer damage by impact, are non-absorbent, greaseproof, and resist acids and alkalis, but are not suitable in places subject to excessive condensation such as basements where there is no damp course. All that is necessary to keep the tiles clean is a wipe with a damp cloth.

Fire Prevention by Nuclear Detection.—By comparison with conventional heat detectors the Minerva fire-detection system, patented by Minerva Detector Co., Ltd., Richmond, Surrey, is claimed to give extremely early warnings. The sensitive element in the system is an ionisation chamber in which the air is rendered conducting by the alpha particles emitted from a small quantity of radium compound having a theoretical life of 1,000 years. The entry of smoke into the chamber calls into action a balanced circuit that operates an alarm, or, if required, brings automatic fire-extinguishing equipment into operation.

Anti-flame Finish.—Proban, Ltd., a company formed jointly by Albright & Wilson, Ltd., 49 Park Lane, London, W.1, to produce Proban durable anti-flame finish for industrial clothing and a wide range of textiles, announces supplies will shortly be available under licence to textile finishers. At present all treated material is being used in the manufacture of protective industrial clothing. Most textiles subjected to flame are completely destroyed. With Proban-treated fabric the area charred is confined to that in contact with the flame and there is no continued smouldering or "afterglow." The finish is based on a synthetic resin which is produced in the fabric struc-

ture from its components during a curing process. The essential constituent is a phosphorus compound known as

tetrakis - hydroxymethyl phosphonium chloride (THPC). It is added to an amino-formaldehyde precondensate.

PACKAGING NOTES

Stock Plastic Containers.—Plastic Box Co., Ltd., Market Rasen, Lincs, claim to be producers of the largest stock range of plastic containers in the United Kingdom. They supply $\frac{1}{4}$ -million containers weekly for a wide range of products in the pharmaceutical industry.

Electric "Tape-shooter."—An electric "tape-shooter" introduced on to the market by Samuel Jones & Co., Ltd.,



London, S.E.15, is described as the most modern, labour- and time-saving of all the sealing machines issued by the company.

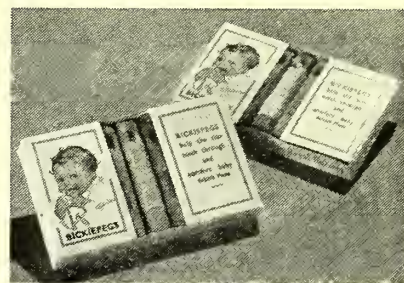
Tube-filling Speeded Up.—The speed of an automatic tube-filling machine is usually limited by the speed with which

tion, November 5–14, 1955. One attachment is a semi-automatic tube-feeding device, by means of which the operator places tubes in a chute, from which they are automatically picked out one by one and placed in the tube-holders as they are brought underneath the feeding device by the rotating turntable. As the tubes approach the filling station a centering device actuated by a photo-electric cell turns the tubes in the holders until the design is central. It is necessary to print a registration mark on the tube. As most of the mark is subsequently hidden by the fold, it does not interfere with the design. The work of the operator is simplified to such an extent that even an unskilled operator can keep the machine running at its maximum speed of approximately sixty tubes a minute. A new, smoothly acting pump mechanism and bronze bushes on all bearings make the machine capable of trouble-free continuous running at maximum speed. The model is suitable for all tubes from $\frac{1}{4}$ -dr. to 8 fl. oz. The sole agents are Flexile Metal Co., Ltd., 796 Holloway Road, London, N.19.

Plastic Shaving Bowl.—A plastic shaving bowl recently adopted by Colgate-Palmolive, Ltd., for their Palmolive shaving soap is compression-moulded in light green paper-filled urea material by Universal Metal Products, Ltd., Langley Road, Salford, 6, Lancs. Star-shaped projections on the inside of the base hold the soap

securely in place and prevent movement of the soap when in use. The lid screws to the base by means of a two-start thread. Messrs. Universal are also making the new Palmolive rapid shave aerosol lather pack. The container introduces several new features, being of impact extruded aluminium, and made in one operation (without side seams). The base is of tinplate and the inside is lacquer coated.

A "Window" Carton.—The package recently produced by British Cellophane, Ltd., 12 Conduit Street, London, W.1, holds nine Bickiepegs in a layflat open-top carton with long end-flaps, each of which extends one-third



of the way across the top of the pack. The Cellophane overwrap holds the pack rigid and the transparent window between the flaps reveals three of the Bickiepegs, to one of which is attached a coloured safety ribbon. The use of the ribbon is demonstrated by the cheerful illustration beside the window. The carton is printed in black and orange, and the copy on the underside of the package describes what Bickiepegs are.

NEW PRODUCTS AND PACKS

Three Penicillins in One.—Glaxo Laboratories, Ltd., Greenford, Middlesex, have introduced a new speciality, Triplopen, which produces the immediate effects of some forms of the antibiotic and the long-lasting effects of others. Each single dose of Triplopen contains 500,000 units of sodium penicillin; 250,000 units of procaine penicillin; and 500,000 units of benethamine penicillin. The product is available in single-dose vial and in pack of ten single-dose vials.

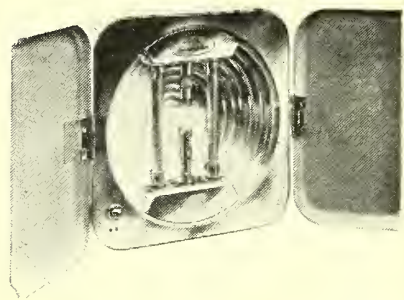


Fifty - tablet Pack.—A fifty-tablet pack of Veganin tablets has been introduced by William R. Warner & Co., Ltd., Power Road, London, W.4—an economy size specially designed for the medicine chest. The pack is as illustrated.

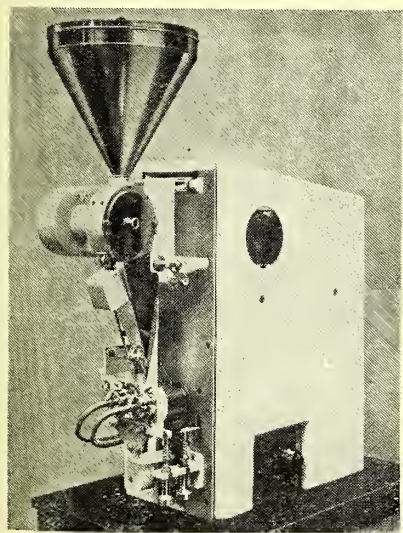
Antiseptic Silicone Cream.—Lloyd-Mamol, Ltd., 11 Waterloo Place, London, S.W.1, announce the availability of an antiseptic silicone cream, Syl. Its basis is dimethylpolysiloxane, which effectively "waterproofs" the skin and thus excludes any water-soluble irri-

tants. Syl also contains hexyl resorcinol. Its use is indicated in the protection of the skin from chemical irritants. The packs are a collapsible tube and a 500-gm. dispensing jar.

Mercury Quartz Sunlamp.—Pifco, Ltd., Manchester, have introduced the compact mercury quartz sunlamp, illustrated: the Pifco Sunmaster. The lamp



allows ultra-violet or infra-red rays to be used independently or together, and is designed for treatment at home under medical guidance. It is enclosed in a cream enamel casing with hinged doors and rubber feet, and measures only 9 x 9 x 3½ in. The case has a chrome stand and is slotted at the back for wall mounting. A medical certificate is required.



an operator can insert tubes in the holders and position them to ensure that the design is central after the tube is closed. The use of two operators instead of one may increase output but cancels out the saving brought about by automatic filling. To enable the Kalix-Dupuy model super RV7 tube-filling machine to run at maximum speed, the manufacturers have introduced two improvements, which were exhibited at the Paris Packaging Exhibi-

TRADE NOTES

Purchase Tax per Dozen.—The purchase tax per doz. on C.M.P. asthma remedy, manufactured by C. & M. Medical Products, Ltd., 558 Bath Road, Bristol, 4, is 22s. 6d. [Corrected note.]

Shavers on Record Flight.—The Philishave electric dry shaver was selected by the De Havilland Aircraft Co., Ltd., for the use of the crew during the record breaking, round-the-world, proving flight of the Comet III.

Sole Distributors.—Under an arrangement made by Mr. Martin Spencer, Macwill & Co., Ltd., West Road, Kingston Hill, Kingston-on-Thames, Surrey, are appointed distributors of and will manufacture M28 (for external use in dysmenorrhoea).

Fashion Sunglasses.—Sole distributors of the Samco fashion sunglasses, obtainable in a wide variety of styles and at a range of prices, are D. Harris & Co., Ltd., 73 Brewer Street, London, W.1. The sunglasses are being shown at the Gifts and Fancy Goods Fair, Blackpool, February 6-10.

Discontinued.—CLINICAL PRODUCTS, LTD., 2 The Green, Richmond, Surrey, have discontinued issuing Complax and Isobrom tablets and certain dispensing packs of other specialities.—PERSOMNIA, LTD., 2 The Green, Richmond, Surrey, have discontinued issuing the 1,000-tablet dispensing pack of Persomnia tablets.

Representation in Pakistan.—Commercial Traders, 5 North Brook Hall Road, Dacca, East Pakistan, wish to take up agencies for medicines, drugs (especially injectable biological products), and sulphonamides. They hold Pakistan licences to import drugs to a considerable value, and would welcome inquiries.

Orders to Head Office.—British Filters, Ltd., Maidenhead, Berks, state that, the lease on their Berkeley Street, London, W.1, showrooms having expired on December 31, 1955, they have found it impossible to arrange for the immediate opening of alternative premises. In the meantime correspondence should be addressed to the company's head office at Maidenhead.

Unusual Biochemicals.—The research laboratory of L. Light & Co., Ltd., Poyle Estate, Colnbrook, Bucks, are preparing experimental quantities of many unusual biochemicals such as purines, pyrimidines, enzymes, metabolites and reagents. The company states that in order to direct its research efforts it relies upon inquiries and suggestions in by research workers.

Blackcurrant Juice for Rally Drivers.—Many of the Monte Carlo rally drivers who leave Glasgow in the early hours of January 16 are taking supplies of Ribena blackcurrant juice with them. They will find, too, supplies and hot drinks of blackcurrant juice for them at four main points on the 2,000-mile route. Competitors get little time for sleep during the four days of the rally, and in past years many have found that blackcurrant juice helps to sustain energy. Drivers starting from Stockholm, Lisbon, Athens, Munich and

Rome will also find supplies of blackcurrant juice awaiting them in Paris, where all cars make rendezvous on January 18 for the final leg of the rally.

Promoting Sales of Sunglasses.—To encourage "impulse" buying of sunglasses Alfred Franks & Bartlett Co., Ltd., 226 Gray's Inn Road, London, W.C.1, have produced what they claim



is the finest sunglass display stand yet made. Surmounted by a viewing mirror, it is strongly made in plastic and rotates at a touch. It carries 6 doz. sunglasses selected from the 1956 Bartlett range. Messrs. Franks & Bartlett draw attention also to their Bartex range of individually boxed sunglasses with light-weight gilt frames and unbreakable Rhodoglass lenses in five colours: Smoke, blue, rose, green, and degrade. Rhodoglass is a new light-weight, unbreakable, non-inflammable material produced to optical standards and designed to absorb ultra-violet rays. It is tested by the Optical Institute of Paris.

Exhibition Ship for Dollar Markets.—Plans to send a floating trade fair this year to develop British export trade in the West Coast ports of America and Canada are now being made in London. The venture is being promoted by Trade Ships (Exhibition & Sales), Ltd., 16 Berkeley Street, London, W.1, and the vessel is the M.Y. "Thurgar" which won fame as a floating trade fair when moored near the Houses of Parliament in 1954 and later visited trade fairs in Scandinavian countries. She will be equipped to exhibit consumer and other goods of a number of British manufacturers to trade buyers and distributors in Los Angeles, San

Francisco, Vancouver, New Orleans and other large ports on the Pacific coast and southern States of America.

Bonus Offers

BENGERS, LTD., Holmes Chapel, Ches. Benger's food. Thirteen to doz. in return for fourteen days' display. Bonus parcels of twelve 8-oz.; twelve 8-oz. and six 1-lb. (bonus: two 8-oz.); twenty-four 8-oz., twelve 1-lb. (bonus: four 8-oz.); thirty-six 8-oz., twelve 1-lb. and six 2-lb. (bonus: seven 8-oz.) available until February 4.

COOPER, McDUGALL & ROBERTSON, LTD., Berkhamsted, Herts. Cooper's pressure packs. 5½ per cent. on 4 doz. units; 2½ per cent. on 2 doz. units. Cooper's household flyspray. Separate 5 per cent. on all orders value £5 or more placed by April 30.

DAE HEALTH LABORATORIES, LTD., 17 Berners Street, London, W.1. Valderma antiseptic balm. 5 per cent. extra discount on 3 doz.; 7½ per cent. extra on 6 doz.; 10 per cent. extra on 9 doz. Until February 10.

FERGUZADE, LTD., Strathmore Springs, Forfar, Angus. In Scotland and Northern Ireland only, January 23 to March 3. Thirteen for price of twelve.

HALEX DIVISION, British Xylonite Co., Ltd., Highams Park, London, W.4. Halex tooth-brushes. Twelve free brushes with every 6 doz. ordered; thirty-six free with every gross ordered. Scheme applies to nylon brushes and to nylon and bristle 5-star brushes in dispenser, 3 doz. size dispenser and special Noddy brush dispenser containing Noddy-handle brushes. "Dispenser" display pieces have been redesigned.

WHITE LABORATORIES, LTD., 428 Southcroft Road, London, S.W.16. Feen-a-mint. Thirtieth anniversary offer. Fourteen to doz. on minimum order of 1 doz.

Exhibitions and Fairs

ACHEMA 1958 (the twelfth Chemical Apparatus and Equipment Congress and Exhibition). Frankfurt-am-Main, Germany, May 31 to June 8.

AUSTRALIAN BETTER FOOD EXHIBITION, Melbourne, Australia, January 25 to February 4.

BRITISH PLASTICS EXHIBITION, Olympia, London, July 10-20.

CATERING EXHIBITION, Olympia, London, January 25 to February 3.

CHEMEX (CHEMICAL) EXHIBITION, Melbourne, Australia, May 10-26.

ELECTRICAL ENGINEERS (A.S.E.E.), Earls Court, London, March 20-24.

INTERNATIONAL DRUGGISTS' AND CHEMISTS' TRADE FAIR (Indrofa), Düsseldorf, Germany, October 14.

LONDON MEDICAL EXHIBITION, Horticultural Hall, London, S.W.1, November 12-16.

MEDICAL EXHIBITION, Cardiff, May 7-11.

NATIONAL PHARMACY EXHIBITION, Victoria Halls, Bloomsbury Square, London, W.C.1, September 10-13.

Correspondence

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Hospital Drug Costs

SIR,—In your table showing the cost of drugs and dressings in various types of hospitals (C. & D., January 7, p. 6) I was struck by the fact that in "acute" hospitals with over 900 beds the average weekly cost per patient of drugs and dressings was on a level with the cost in the same type of hospital with 1-50 beds, though in the intermediate ranges (i.e., between 50 and 900) the cost is quite 50 per cent. higher. I wonder what the explanation is. Have any of your hospital pharmacist readers any comments?

MARK QUESTION

"Prescribers' Notes"

SIR,—I see from your January 7 issue (p. 1) that the British Medical Association's General Medical Services Committee suggests that copies of *Prescribers' Notes* should be supplied to assistants. Is it not high time that they were supplied to chemist-contractors as well? The *Notes* sponsor policies that directly affect the pharmacist in his business and yet the first intimation that he may have of them is their effects. Medical representatives tell us what they are advising the doctors. Should not the Ministry do as much? Your summaries of the contents of the *Notes* are helpful but, in principle, has not the contractor a right to receive the actual publication?

CONTRACTOR

Poetic Licence Conceded

SIR,—For some time past I have enjoyed the "tilting" of your contributor J. J. Hayton, who rarely falters when ridiculing bureaucracy or commenting on current pharmaceutical affairs. If I were hypercritical I might sometimes find fault with his metre, but one must allow him, as the poet proper is allowed—a little licence. So I say:

*When writing verse
One can do no worse
Than have a steady metre.
With that in mind
We can be unkind—
But funny—to a fellow creature.
So to J. J. Hayton:
"Don't stop your creatin',
It all adds to our bliss.
But remember, dear sir,
As you create your stir
A metre's as good as a miss."*

POETICUS

Those Rating Assessments

SIR,—It is a coincidence that in the January 7 issue of *THE CHEMIST AND DRUGGIST* there appeared a prominent report of an increase in European chemical production and a short, and by no means prominent forecast that many small shopkeepers will be forced to close down by the new rating assessments. The rise in the production of chemicals in Europe, paralleled by a similar rise in Britain, reflects the success of British chemical manufacturers.

Their prosperity is good, but it has to be borne in mind that many of them fare well under the present rating system. Is it fair that assessments should favour our Big Brothers in industry if by so doing they force a disproportionately heavy burden on to the small shopkeepers and house owners? As a retail pharmacist with a small business I realise that I must pay my share of the communal levy—but I object most strongly to acting as a "prop" for industry, which no longer needs a concession granted years ago as one means of combating unemployment. I doubt if I shall be forced out of business, but the fact that my rating assessment has been practically doubled will, unless the poundage is reduced to an equivalent extent, certainly affect my standard of living—and that of my wife and children. Hints that "your poundage will be so much less that it will practically rule out the increased assessment" do not, in fact, fool me. I am unconvinced that shopkeepers or houseowners will be no worse off. Otherwise, why go to the trouble of the reassessments? Incidentally, while I am given only one month to prepare an appeal, the authorities claim three months to prepare their case—and propose lumping similar cases together for their purposes!

Birmingham

OVER-RATED

More Prices Frozen

SIR,—Following the public-spirited lead set by the cement manufacturers and the Wellcome Foundation, Ltd., we wish to make public our decision not to increase the prices of any of the products marketed by the A. J. White group of companies on their own behalf or on behalf of Smith, Kline & French International Co. during the next six months. In making this announcement we are reaffirming our long-standing policy of keeping our prices down and reducing them at every opportunity. The prices of many of our products have been reduced several times during the past few years, despite the rising costs of fuel, raw materials, and wages. This policy has contributed to the remarkable record of price stability in the pharmaceutical industry. The wholesale prices of drugs and pharmaceutical preparations are now only 4.1 per cent. higher than in June 1949, compared with a rise of over 30 per cent. in the general level of all wholesale prices. Engaged as we are in an industry one-third of whose output is bought via the National Health Service by the Government, it is our belief that our promise of stable prices will play a part in stemming the tide of inflation, since economic stability can only be achieved by restraint in expenditure in both the public and private sectors of the economy.

London, S.E.5. A. J. WHITE, LTD.
[A. J. White, Ltd., specialise in the manufacture and supply of nitrofurans products to the poultry industry. A

subsidiary, Menley & James, Ltd., is engaged in the pharmaceutical business throughout the world.]

The Phenothiazine Nucleus

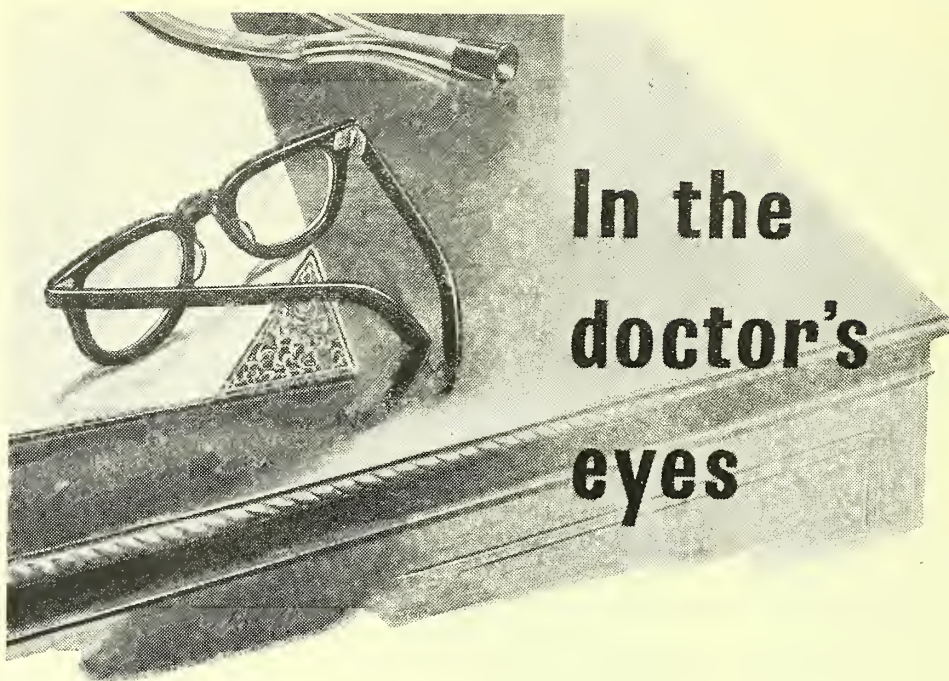
SIR,—In my review of the International Pharmacopœia (December 3, 1955, p. 640) I made the statement in the discussion of antihistamine drugs that Profenamine, a diethyl homologue of promethazine, was practically unknown in this country. Further study has shown that this compound is, in fact, that officially known here as ethopropazine hydrochloride and on the market as Lysivane hydrochloride (Pharmaceutical Specialities (May & Baker), Ltd.). It is also—in France—called Parsidol hydrochloride (Rhône-Poulenc). The drug is, of course, not an antihistaminic but an anticholinergic agent used in the treatment of Parkinsonism. The number of drugs with widely different actions but which have a phenothiazine nucleus is noteworthy. Thus there are promethazine (Phenergan) and pyrathiazine, U.S.P. (Pyrrolazote, Upjohn) which are antihistaminics; promethazine 8-chlorotheophyllinate, used in motion sickness; diethazine (Diparcol) and ethopropazine used in Parkinsonism; chlorpromazine (Largactil) used as a sedative, as a hypothermic drug and also to potentiate the action of analgesics. Another derivative Miltargan is used in America as a gastro-intestinal antispasmodic and anticholinergic agent. Phenothiazine itself was formerly used in human medicine as an anthelmintic for roundworms and threadworms, and was included in the 1949 British Pharmaceutical Codex. After some fatalities its use for that purpose in man was discontinued, but it is still widely used in veterinary medicine and is included in the *British Veterinary Codex*, 1953. The phenothiazine nucleus is also present in several medicinal dyes including methylene blue and toluidine blue. Weese (*Arch. exp. Path. Pharm.*) has stated that pharmacologically the phenothiazine derivatives possess, in varying degrees, all of the following actions: Local anaesthetic, antihistaminic, anticholinergic, adrenergic-blocking, ganglion-blocking, and inhibition of cerebral cortical and brain stem action—a truly remarkable variety of effects.

T. D. WHITTET

Women Pharmacists in Business

SIR,—I had not realised that pharmacies wholly owned and staffed by women were already in existence in 1885, as appears from a paragraph in "Onward from Galen" last week (C. & D., January 7, p. 16). But one thing puzzles me. Women form a much higher proportion of entrants into pharmacy today than they did in 1885. Yet pharmacies owned and run by women remain rarities. Why do so many remain employees throughout their lives?

PROPHYLLIS



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Published weekly at

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TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

Rational Narcotics Control

THE recent decision of the Government to postpone for at least twelve months the ban it had previously imposed on heroin manufacture was the result of pressure from a variety of critics, including some of its political supporters. Particularly was it the outcome of a devastating speech by Lord Jowitt—a former leader of the Labour opposition in the House of Lords. If vindication were needed of the essential wrongness of the countermanded decision it is to be found in the 1955 report, issued on January 8, of the Permanent Central Opium Board. The report declares that almost all the morphine and heroin used by addicts throughout the world is obtained from clandestine laboratories; and that the opium used by those laboratories is obtained from the illicit traffic in the drug. Legitimate manufacture of narcotics in countries signatory to the international conventions is accounted for, and it is proved that "diversions represent only a small fraction of the illicit traffic." The "contracting parties" (the nations) have, "with few exceptions," fulfilled their obligations. Great Britain is so far from being one of the exceptions that its record in the control of Dangerous Drugs is exemplary. It follows that in Britain the manufacture of heroin is unconnected with the illicit traffic in narcotics. In those circumstances the imposition of a ban merely to demonstrate uniformity of purpose with other countries or to impress backsliders among the nations is an idle gesture.

In fact, the decision was a further evidence of a confusion of thought which has dogged the practice of pharmacy no less than the practice of medicine in Britain ever since the first Dangerous Drugs Act was put on the Statute Book.

The original resolution under the Hague Convention was to "pursue progressive suppression of the abuse of opium, morphine, cocaine as well as drugs prepared or derived from those substances." In the name of controlling abuse the legislation in Great Britain from the start placed burdensome and excessive restrictions on the legitimate handling of narcotics by pharmacists and others. With legitimate uses as such the international conventions were not and are not concerned. In fact the Permanent Central Opium Board finds "no reason for disquiet" in a continued rise in the consumption of narcotics for medical and scientific purposes—a rise that "may be expected to rise still further as health services continue to expand."

Not the least disquieting feature of the ban which

the Government fortunately thought better of imposing is that it would have been the first incursion in the physician's right to prescribe whatever drug. Dangerous or otherwise, he considered was dictated—for medical reasons—by his patient's condition. That freedom, having now been re-established for twelve months, should be extended into permanency. In view of the expected legitimate increase in the consumption of narcotics under the National Health Service, it is also timely and just to seek simplified forms of control of narcotics within the pharmacy. The pharmacist, instead of being treated like a near criminal, should be given recognition for his special training in the properties and handling of drugs and for the high responsibility he shows in dispensing and distributing them.

Medical Terms Defined

THE pharmacist who aspires to be regarded as the medical practitioner's consultant on new drugs and their pharmacology and therapeutics must above all be sure that he uses medical terms in the same sense and with the same facility as the doctor. The *Chemists' Dictionary of Medical Terms*, which for years has been the standby of the proprietor pharmacist from that point of view, has, as a reference work, been improved in the new edition—the seventh—published this week. The words defined have been set under one another at the extreme left of each column and the definitions, where they turn the line, set a little to the right. By that means it is much quicker and easier to pin-point the entry required.

Terms that have come into common use since the previous edition have been added, and some of those given in earlier editions have been omitted as being "on the way out." In general, abbreviations have been omitted and words and meanings not definitely associated with medicine have been ignored. The fact that the *Dictionary* has been prepared specifically for pharmacists makes the chemist the principal buyer of the book, but students will find it a promoter of knowledge, counter assistants an adjunct to successful dealing with customers for medicinal products, and advertisement copywriters an invaluable means of attaining that nicety of description that is a first essential in framing a type of advertisement so beset with legal, ethical and social problems.

In its 289 pages the *Dictionary* gives about 15,000 definitions.

FIFTY YEARS AGO

WHY NAPOLEON FELL?

From the C. & D., January 13, 1906

ILLEGIBLE writing is a misdemeanour which ought to be punishable by at least a studied disregard of the culprit's instructions. I hope the gentleman whose specimen appeared last week is still waiting for the bottle of carrots, or barytes, or whatever it was he forgot to call for. Is it generally known that the ruin of Napoleon at Waterloo was not improbably due to illegible writing? When the battle was commencing the Emperor told Soult to send an urgent dispatch to Grouchy to join him and to intercept the Prussians. Soult wrote in pencil, and probably on horseback. His message began "La bataille est engagée," and then followed instructions. Grouchy and his staff read the opening words "La bataille est gagnée," and the officer who brought the dispatch was so hopelessly drunk that no details could be extracted from him. So Grouchy went the wrong way after Blücher, Blücher went to Waterloo, and Napoleon went to St. Helena.



“OPEN SHOP”

AN UNSCRIPTED COMMENTARY ON THE SPECIAL PROBLEMS OF THE PHARMACIST IN RETAIL PRACTICE

By E. C. TENNER

SINCE the October Budget it has become clear that the Proprietary Articles Trade Association has been unable, in the present climate of public opinion, to stop a determined and widespread outbreak of thinly disguised price-cutting. Whether by intention or not, the largest and nation-wide chains of pharmacies, owning hundreds of shops, have demonstrated that they are able to sell P.A.T.A. lines at prices below the P.A.T.A. minimum retail prices for as long as is their whim, and greedily to the embarrassment of the P.A.T.A. The enemies of the P.A.T.A. in both political parties can now allege that the “Stop List” procedure is invoked against the weak but not against the strong.

Strong Lead Wanted

The National Pharmaceutical Union itself, which annually collects the retail members' subscriptions for the P.A.T.A., failed to give a strong lead in support of the principles of price maintenance when the new P.A.T.A. prices were announced. The poster they hastened to send out to retailers did nothing to stop a spreading of the outbreak of price-cutting among the thousands of N.P.U. members. So, as they always will, the little price-cutters followed in the shadows of the giants—between them, some think, heading the funeral procession of the P.A.T.A. as we have known it.

The price-maintenance machinery of the P.A.T.A. is, therefore, under fire from all quarters, political and trade, and it surely cannot be long before the “stop list” becomes illegal. It is vital for the pharmacist in retail practice to consider what may happen when price-cutting of advertised medicines and allied lines occurs. Because his overhead expenses are so much higher than those of other traders, the chemist will be forced to push and favour the sales of un-“cut” lines and to sell “cut” lines only on demand. Manufacturers will be forced to attempt to protect their sales by their own individual price-protection schemes, which it seems may be judged to be in the public interest and legally allowable. Some manufacturers will undoubtedly look around to find fresh distribution channels to bolster their sales.

When the Chemists Friends scheme was first mooted by the late Mr. G. A. Mallinson, it was pointed out that the P.A.T.A. price-maintenance machinery had been so successful in establishing the flourishing “patent” medicine trade that it had also engendered a multitude of medicine vendors who were not chemists. As a result, there are manufacturers within the P.A.T.A. who appear primarily concerned to open as many distribution channels for their goods as possible, regardless of the interests of retail chemists who were the foundation of the P.A.T.A. So the Chemists Friends, now the Chemists Federation, came into existence: the manufacturers pledged to distribute their goods exclusively through chemists who in return undertake to encourage their sales.

Will Pharmacists Take Warning?

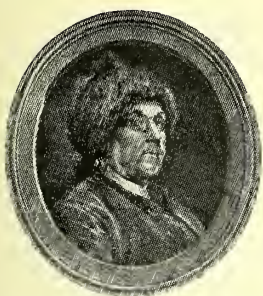
The founders of the C.F. foresaw that the time might come when the P.A.T.A. would no longer be able adequately to protect pharmaceutical interests in the proprietary medicine trade. Can pharmacists regard all those circumstances and be satisfied that that time has not now arrived?

Will they think they may safely sit tight with folded hands, or will they take warning that they must fight for their profits against the large “chains,” as well as against the non-pharmaceutical vendors, both classes being vendors well able to afford to wage a price-cutting war which is beyond the means of the private chemists? There is also another aspect. The pharmaceutical contribution to the National Health Service is heavily subsidised by the retail-trade success of the contractors. The Ministry of Health is assiduous to apportion the contractor's overhead expenses between the dispensary and the “front shop,” and may now be nearing agreement on that matter. A fundamental change in retail trade resulting from unrestricted price-cutting could make nonsense of any such apportionment made upon a basis of figures at present in the hands of the negotiators. The cost to chemist-contractors would be serious.

Not to realise now the meaning of the signs of the times is to lose valuable breathing-space, perhaps irretrievably. Where is the way forward through these dangers? Thanks to the foresight of G. A. Mallinson, the C.F. is strongly established. Strongly supported, it could to a large extent protect the pharmacist retailer from the non-chemist vendor, but it cannot protect him from the price-cutting of his fellow pharmacists unless the C.F. manufacturers establish strict schemes to protect their prices and favour no cutter, however large a buyer he may offer to be. It will also be essential for chemists to give scrupulous loyalty both to C.F. and to their fellow pharmacists. In this connection it must be said that, while the chemists in any town will always behave in a highly ethical fashion, yet there seem to be among them invariably certain individualists who would, given the opportunity, sacrifice their profession for their personal gain; their clever perspicacity when successful has too often been excused as “enterprise.” Those people should never be emulated, but should be recognised for the menace that they are to the high ethical standards indispensable for giving the public the pharmaceutical service it ought to have. Price-cutters are never philanthropists.

To Sum Up

Summing up the situation, one can see that the manufacturers, who have gained so much from the price protection afforded by the P.A.T.A., which now seems to be beginning to break up, will endeavour to maintain their prices by all legal means; those who remain outside the C.F. will no doubt try to maintain their prices, but they will also seek to bolster their sales by developing non-chemist distributors. The pharmacist in retail practice can find satisfactory survival by strengthening the Chemists Federation and by absolute loyalty to the principles of price maintenance and high ethical standards, regardless of the activities of the chains, the “individualists” and the non-chemist vendors. Here, then, is urgent work for the National Pharmaceutical Union and also for the Pharmaceutical Society. If this decade had produced another who could be ranged with Jacob Bell, Glyn Jones, or Mallinson, one would be confident the dangers would be recognised in time and the lead would be forthcoming. But whom do we know who would dare to advise us that the day of the P.A.T.A. is past and that our future lies in pharmaceutical solidarity and the C.F.?



Contributions to Medicine of BENJAMIN FRANKLIN

ONE of the claims to fame of Benjamin Franklin, who was born 250 years ago—on January 17, 1706, is that he introduced colchicum into America for the treatment of gout. Franklin was one of the most versatile people the world has ever known. Journalist, printer, statesman, philosopher, inventor, scientist, amateur doctor, and authority on public health, he was also the most widely travelled American of his generation. By his famous kite experiment, performed in a thunderstorm in 1748, he proved the identity of lightning and electricity. He invented the lightning conductor, and applied his electrical researches to medicine when he treated paralysis by electricity. The term "Franklinism" (frictional electricity) was first used in 1757. Franklin designed bifocal lenses for his own use, and a flexible silver catheter for his brother, who had retention of urine due to a calculus. He wrote on the heat of the blood and on lead poisoning. Losing a son from smallpox, he became an ardent advocate of inoculation. His pamphlet on the subject, published in London in 1759, contained directions by William Heberden for performing the operation. He helped to found the Pennsylvania Hospital in Philadelphia, regarded as the oldest hospital within the present United States; the Philadelphia Academy for the Education of Youth, which grew into the University of Pennsylvania; and "Junto," a club for the promotion of useful knowledge and forerunner of the American Philosophical Society. In 1784 he served on a

commission with Lavoisier to investigate Mesmerism, and he is said to have coined the watchword of the French Revolution: "*Liberté, égalité, fraternité.*" Franklin's *Poor Richard's Almanac*, first published in 1732, quickly became a best-seller. Some of its homely medical advice, such as "Early to bed and early to rise," continues to be quoted to this day. Preaching the gospel of fresh air, Franklin urged Americans to sleep with their bedroom windows wide open. His "Pennsylvania fireplace" represented a great improvement in domestic heating.

Franklin was a victim of gout and of stone, and that prompted his resort to colchicum. His first attack of gout occurred in 1749, and the disease tormented him on and off for the rest of his life. His dialogue with the gout has become a classic.

Symptoms of stone in the urinary bladder manifested themselves first about the year 1779, and Franklin prescribed for himself a mixture of honey, molasses, and jellies with the idea, apparently, of increasing the specific gravity of the urine and preventing the stone-forming deposits from becoming aggravated. That prescription, however, must have proved ineffective, for in 1785 Franklin consulted some of the most eminent doctors in England, including John Hunter and William Heberden. In view of the patient's age (79) and corpulence, they advised against an operation. Franklin began to take laudanum four years later and died of empyema and uraemia on April 17, 1790, aged eighty-four.

A RETURN TO THE RETAIL

BY EXECUTIVE

AFTER ten years of administrative work and seventeen years' absence from retail practice, I was urged recently by a pharmacist acquaintance to help in her dispensary on a Saturday during the pre-Christmas rush.

On the day arranged, my alarm-clock rang at, to me, an unseemly early hour, but going to work on a Saturday for once had compensations—satisfaction, for instance, in sharing strangely deserted streets with other workers hurrying to maintain the essential life of London on this semi-holiday.

Before I had satisfied myself as to the layout of the dispensary stock, or had recapitulated adequately on the subtle differences in appearance between bottles of closely similar size, my attempt to familiarise myself with the establishment was swept aside by the first of the daily flood of prescriptions. It was a reinitiation by the hard way—with an ointment. However, the electrically heated slab—what a joy!—made light work of it, and I gained in confidence. A minor shower of EC10's was next deposited on the bench to my left. They called for, among other medicaments, agreeably coloured, pleasant-smelling (and, no doubt, fairly pleasant-tasting) syrups and elixirs; tablets and capsules of every hue and size; powders and pessaries beautifully packed in foil or plastic; and other presentations of antibiotics; antihistaminics; sedatives; vitamins; hormones; anti-cough principles; drugs employed in psychiatry, and many other specifics. I began to see contemporary pharmacy through different eyes. Preparations that hitherto I had known only theoretically as formulas or as the subjects of research monographs were realities

passing through my hands *en route* to individual patients.

Some of the proprietary mixtures seemed to me a little over-dressed, but on the whole it was satisfying to be dispensing such new, powerful and measurable products, even if the manipulative procedures were simple. Pharmacy, I recalled having read, was becoming less a craft, and more a profession.

With a certain amount of patient prompting as to the location of medicaments I was soon able, much to my own surprise, to stem the tide of incoming prescriptions, and even to make headway on the accumulated "stocks." Eventually the flow of EC10's passed its peak and diminished to a trickle. At an early hour compared with what I remembered as my previous closing-time in retail the day came to an end. It was quite late enough for me.

Would I like to return permanently to retail pharmacy? That is too large a question to answer from one day's experience in a present-day dispensary. At least I am reassured that I can readjust myself fairly easily if I wish. My help is being asked for again, and this time I am agreeing without hesitation.

INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

Bvard's CITRADORIA (present source)
COLBRAN
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A VERITABLE "MAGNUM OPUS"

By T. D. WHITTET, B.Sc., F.P.S., F.R.I.C., D.B.A.

(Chief pharmacist and lecturer in pharmacy, University College Hospital, London)

The United States Dispensatory

ARTHUR OSOL, PH.G., B.S., M.S., PH.D., GEORGE H. BEYER, JUN., B.S., PH.D., M.D., and collaborators. Pitman Medical Publishing Co., Ltd., 10½ x 7 in. Pp. 2139. £10.

THE publication of a new edition of the *United States Dispensatory* is as important an event in American pharmacy as the appearance of a new edition of the *Extra Pharmacopœia* (Martindale) is to British pharmacists. Unlike Martindale, however, the Dispensatory makes no attempt to be a pocket book or even a handbook, and the new volume is indeed a mighty tome, a veritable "magnum opus" in every sense of the phrase. Its weight is 8½ lb.

The new volume contains over 200 more pages than its already formidable predecessor, and a judicious rearrangement of its contents has enabled as many as 500 new drugs to be included—an indication of the phenomenal developments in pharmacy and pharmacology during the past five years. The omission of the former Part 3, containing general tests and processes, has enabled a further 102 pages to be devoted to the properties, actions and uses of drugs. The tests, etc., could appropriately be included in a different volume for readers specially concerned with analysis.

The new volume is arranged in three parts. Part 1 contains drugs recognised by the United States, British and International Pharmacopœias and the National Formulary (of the United States). It is good to see the International Pharmacopœia given parity with the other two in this respect. Many of the drugs in this part will be already familiar to British pharmacists but the properties, actions and uses sections on many drugs included in the American and International volumes and not in our standard reference books will be particularly useful. A few of the drugs in this section (mainly from the N.F.) seem at least obsolescent and are seldom or never used here—for example sanguinaria (blood root) and ferric cacodylate. Sherry and whisky have also passed out of pharmaceutical practice and reference books in this country.

A valuable new feature is the enlargement of the data on dosage and on toxicology, both subjects on which the pharmacist is becoming increasingly regarded by the physician as the expert. Another useful idea is the inclusion of summaries of articles that have of necessity become very long because of the large amount of information available. Two somewhat surprising omissions are, of any reference to the need for protection from contamination of fluorescein eye drops used for the detection of corneal lesions, or to the use of monosodium glutamate in the treatment of hepatic coma.

Part 2 consists of drugs not official in the three pharmacopœias or the National Formulary. The section also contains an excellent new series of surveys of the principal groups of drugs. Many contain valuable tables showing what is known of the relationship of chemical structure to pharmacological action, and making clear the differences between the various derivatives in the groups.

The most important groups of drugs dealt with in this section are:—

ADRENERGIC BLOCKING AGENTS. The formulas of the principal drugs are given, together with notes on their site of action, pharmacodynamic action, and toxicity. As well as the now familiar ergot alkaloids, tolazoline (Priscol), phentolamine (Rogitine) and piperoxane, two lesser known drugs dibenamine and dibenzylamine, which have been tried in Britain, are discussed; one practically unknown on this side is azapetine (Ilidar).

ANTIBIOTICS. The section, one of the most important, contains much new material. One of several valuable tables lists the antibiotics produced industrially, giving their

biological source and principal clinical uses. A second compares the numbers of deaths from certain infectious diseases before and since the introduction of antibiotics. A third gives comprehensive notes on the most suitable antibiotic for systemic use in some common infections. Table 4 lists the antibiotics that have been reported to have antitumour or antineoplastic activity in experimental animals. The fifth gives examples of mixed antibiotic chemotherapy. There is also a diagram of the antibiotic "spectra" of the principal drugs. Among antibiotics as yet unofficial are anisomycin (Flagecidin, Pfizer), used for the treatment of trichomonas vaginalis infections and in amoebiasis; azaserine, shown to have some activity against neoplasms; carbomycin (Magnamycin, Pfizer), already known in Britain, though not yet available—its activity is similar to that of erythromycin and there is some evidence of cross-resistance of organisms to these two antibiotics. the cephalosporins are related to the penicillins and were the subject of a recent annotation in the *Lancet* (1955, 1, 1024). Cephalosporin C (also known as synnematin B) has shown promise in the treatment of salmonella typhi infections and might prove superior to chloramphenicol for that purpose. Cycloserine, known as Oxamycin (Merck) and Seromycin (Lilly) is a tuberculostatic drug of considerable activity. Fumagillin and nystatin (Fungicidin) are already available in this country. The former is used in amoebiasis, whilst the latter (Mycostatin, Squibb) is a powerful fungicidal and fungistatic antibiotic likely to be useful in fungal infections of the gastrointestinal tract, vagina and skin. Puromycin also has amoebicidal effects and in addition is trypanocidal.

ANTICOAGULANTS. Several anticoagulants with a heparin-like action and several with an action resembling that of dicoumarol are described. Of the former, dextran sulphate is already official in the B.P. Others are Paritol, Thrombocid and Treburon. Cyclocoumarol (Cumopyran, Abbott) is also available in Britain. Other similar drugs include Dipaxin (2 diphenylacetyl-1-3-indanedione) and warfarin (3 phenyl- α -acetylenyl-4-hydroxycoumarin).

ANTI-HISTAMINICS. The section gives a useful summary of both official and unofficial antihistaminics. It is noteworthy that *New and Non-official Remedies* does not recognise any additional antihistaminics unless they can be shown to have marked advantages over the products already on the market. For manufacturers to adopt a similar policy here would be a progressive move.

ANTIMALARIAL DRUGS. The section discusses the action of the various types. Compounds not well known in Britain are isopentoquine, metachloridine and sontochin.

ANTIMETABOLITES. Under this heading are included the folic acid antimetabolites, purine derivatives (e.g., 5 aminopurine (Purinethol) and the serotonin antagonists. Other specific antagonisms such as that of vitamin K and dicoumarol and of nalorphine and morphine are briefly mentioned and discussed more fully elsewhere.

BARBITURATES. A comprehensive and useful table is included giving the length of action and chemical constitution of practically all the available derivatives. Several of the drugs mentioned are practically unknown in this country.

CHEMICAL WARFARE AGENTS. That so many compounds as are discussed in the section have been tested for use in chemical warfare is a disturbing thought.

CURARIMIMETIC AGENTS AND ANTAGONISTS. The properties of curare and synthetic muscle relaxants, and their antagonists are discussed in some detail. The only listed drugs not well known in Britain are benzoquinonium (Mytolon), a muscle relaxant with a depolarising action which appears, however, to offer no advantage over

similar drugs available in Britain, and edrophonium (Tensilon) which seems a useful curare antagonist, also effective in relieving the symptoms of myasthenia gravis.

GANGLION BLOCKING AGENTS. An excellent account is given of the pharmacology and toxicology of this important and varied group of drugs. Among the unofficial examples trimethaphan (Arfonad) is already being used by anaesthetists in Britain for lowering the blood pressure during operations. Chlorisondamine has recently been introduced on to the British market as Ecolid for use in hypertension.

LOCAL ANAESTHETICS. A concise review of the chemistry, physiology and pharmacology of the local anaesthetics is supplemented by useful notes on a large number of unofficial drugs including the new derivative hexylcaine (Cyclaine) which is undergoing clinical trials at University College Hospital and seems promising.

NEPHROTROPIC AGENTS. In this category are included a range of substances acting on the kidneys—agents used for renal-function tests; penicillin-secretion antagonists; uricosuric agents; diuretics, natriuretic agents; and antidiuretics. Most of the drugs are available in Great Britain except some mercurial diuretics such as mercumatin, N.N.R. (Cumertillin, Endo) and merethoxyline procaine, N.N.R. (Dicurin procaine, Lilly).

PARASYMPATHETIC BLOCKING AGENTS. In this class of drugs, often known in Britain as parasympatholytics, are at least half a dozen which have been introduced in this country recently. The comprehensive survey of their chemistry and pharmacology enables pharmacists to sort out the various derivatives. Examples of those now being used in this country are dicyclomine (Merbentyl or Wyovin); oxyphenonium tricyclamol (Elorine or Lergine); scopolamine methobromide (Pamine); and propantheline (Probanthine).

PARASYMPATHOMIMETIC AGENTS. Chemical structure and pharmacological actions are again clearly set out. Derivatives not yet available in Britain are furfethonium (Furmethide), benzpyridium (Stigmonene) and tetramethoquin.

RADIUM, RADIOACTIVITY AND RADIOISOTOPES. There is an excellent concise summary of these subjects.

RAUWOLFIA. Constituents, actions and uses are well discussed.

SKELETAL ANTISPASMODIC COMPOUNDS. In this category are discussed anti-epileptic agents, anti-Parkinsonism agents and spinal-cord depressants. The section on anti-epileptic drugs is particularly good, describing the neurophysiology and pharmacology and tabling a comparison of the chemical structure and clinical usefulness of many drugs. Unofficial agents include benzchlorpropamide and methylphenyl succinimide (Nydrane and Milontin). Atrolactamide (Themisone) is practically unknown in this country.

The anti-Parkinsonism agents are fully illustrated with chemical formulas. Of the new drugs cycrimine (Pagitane) has been tried clinically at University College Hospital and found effective. Bzotropine (Cogetin) is practically unknown in Britain.

New spinal-cord depressants include meprobamate (Equanil or Miltown) and Prenderol, both related to mephnesin.

SUPPOSITORIES. Additional information is included about many new bases.

SYMPATHOMIMETIC AMINES. Two new derivatives, methoxyphenamine (Orthoxine) and phenylpropanolamine (Propadrine) are available in Britain.

Part 3 of the Dispensatory gives—comprehensively—veterinary uses and doses of drugs. There are many references to the British Veterinary Codex.

All the sections are well documented with references to original papers and the book is remarkably free from typographical errors, none being detected by the reviewer. One drug Multergan, which is mentioned under profen-

amine hydrochloride as a gastrointestinal antispasmodic and anticholinergic agent, is not included in the index, and the monograph not traced.

NEW BOOKS

Biochemical Preparations, Volume IV

W. W. WESTERFIELD (editor). *Chapman & Hall*, 37 Essex Street, London, W.C.2. 9 x 5½ in. Pp. 108. 30s. THE purpose of the series of books of which this is the fourth is to supply reliable procedures for preparing substances of biochemical interest and to illustrate techniques and methods that may be useful to research workers. Substances have not been excluded because they are available commercially, as it is considered that the method of presentation is also valuable in providing a convenient reference to their properties. Twenty-one substances are dealt with in the present volume. Among them are homogentisic acid, α-lactalbumin, inorganic pyrophosphatase, carnosine, glycoaldehyde and D-glutamic acid.

Calendar of the Pharmaceutical Society of Great Britain, 1955-56

Pharmaceutical Press, 17 Bloomsbury Square, London, W.C.1. 8½ x 5½ in. Pp. 296. 15s. (packing and postage one shilling).

LIKE previous editions, the Calendar is a complete reference to the officers, honorary and corresponding members, administration and activities of the Pharmaceutical Society. It lists the representatives of the Society on other bodies, the members of the Poisons Board, and the branches of the Society. The examination regulations are set out, educational establishments, scholarships and awards listed. The text is given of statutes affecting the practice of pharmacy.

Text-book of Pharmaceutical Chemistry

JOHN EDWARD DRIVER, M.A., PH.D., M.Sc., F.R.I.C. *Geoffrey Cumberlege*, Oxford University Press, Amen House, London, E.C.4. 8½ x 5½ in. Pp. 751. 55s.

DRASTIC revision has been necessary of the subject matter of this sixth edition of "Bentley and Driver," to bring it into line with advances in materials and methods and with the new Pharmacopœia that has become official since the fifth was published in 1951. The original intention of providing a textbook for students working up to examinations in pharmacy in Britain and the Commonwealth has, however, continued to inspire its compilation, and, as the author says in his preface, "that it has been found of use to a wider circle of practising pharmacists is incidental, though gratifying." Apart from extensive rewriting, the text has been entirely reset. For practising pharmacists, chapters 49, on proteins, hormones, vitamins and antibiotics (twenty-two pages), and 50, on synthetic medicinal chemicals (thirty-eight pages) will perhaps be of special value.

Dental Practitioners' Formulary, 1955

JOINT FORMULARY COMMITTEE, *The British Medical Association*, Tavistock Square, London, W.C.1, and *The Pharmaceutical Press*, 17 Bloomsbury Square, London, W.C.1. 6½ x 4 in. Pp. 35. Second edition. 2s. 6d.

THIS edition of the Formulary follows publication of the National Formulary, 1955. It takes account of the changes in the schedule of drugs and preparations which may be prescribed by dentists on form EC14 (National Health Service (General Dental Services) Amendment (No. 2) Regulations, 1955) (see *C. & D.*, January 7, p. 1). The reference to the Dental Practitioners' Formulary in the schedule of drugs and preparations instead of to the National Formulary has made it unnecessary to distinguish between preparations in the N.F. and those not in it. The formulas are therefore no longer divided into two groups. The titles of preparations are the abbreviated titles used in the N.F. 1955. Additions to the Formulary are:—Caps. amylobarbiton. sod.; caps. pentobarbiton.; caps. quinalbarbiton.; glycer. borac.; inj. penicil.; inj. procain benzylpenicil.; inj. procain benzylpenicil. c. benzylpenicil.; tab. amylobarbiton.; tab. amylobarbiton. sod.; tab. penicil.; tab. pentobarbiton.; tab. trisulphonamid. Deletions from the Formulary are:—Collut. acidi tannici; collut. thymolis co.; tab. barbitoni.; tab. barbitoni sodii; tab. hexobarbitoni; tab. sulphacetamidi; tab. sulphanilamidi.

PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

Monthly meeting of Council

AT a meeting of the Council of the Pharmaceutical Society of Northern Ireland held in Belfast, in December 1955, THE PRESIDENT (Mr. S. E. Campbell) referred to the death of Professor J. Small. He said that Professor Small had been the longest-serving member of the present Council, having been appointed to it as a representative of Queen's University a short time after the Society was formed. He had taken a keen interest in the establishment of the Society, and it was unfortunate that in recent years he had not been able to attend the meetings regularly. They all realised the work he had done and how brilliant a life he had led. After a brief silence had been observed, THE SECRETARY (Mr. William Gorman) was asked to forward the sympathy of the Council to Professor Small's family.

MR. GORMAN tabled a letter from Mr. Fred Moore (a member of Council), acknowledging the Society's sympathy on the death of his sister.

The Council was informed that the Senate of Queen's University, Belfast, had appointed Professor E. B. C. Mayrs and Dr. R. G. R. Bacon to be representatives on the Council of the Society for a period of three years with effect from October 3, 1955. Dr. Bacon, who succeeds the late Professor Small, is senior lecturer in organic chemistry.

The Council agreed to restore the name of Mavis C. Maxwell, Belfast, to the Register.

A letter was tabled from the Belfast Branch Council of the British Medical Association, forwarding a fifty-guinea cheque for the Benevolent Fund.

A Finance Committee recommendation that a sum not exceeding £100 should be made available if necessary each year for grants to outstanding students wishing to pursue post-graduate courses was adopted.

It was agreed that the names of members, associates and students who had not paid their retention fee for 1955 should be removed from the Register. Following the resignation of Mr. H. P. Crossin from the Council, it was agreed to invite Mr. Charles Moss to accept co-option as a member. Mr. C. A. Quinn was elected to fill a vacancy on the Statutory Committee.

Onward from Galen

A CURRENT CAUSERIE

THE current issue of *Wiggin Nickel Alloys*, the house organ of Henry Wiggin & Co., Ltd., Birmingham, is devoted to the jubilee of Monel, a metal with today many uses in the chemical industry. On account of its resistance to corrosion, Monel is often used in processes in which an exceptionally pure product, free from any possibility of metallic contamination, is demanded. The metal takes its name from Ambrose Monell, president of the International Nickel Co., the company responsible for its development. Among "Some Unusual Applications of Monel" described in the jubilee number is the use in medical research of cages of Monel mesh for holding germ-carrying mosquitoes under observation. Mosquitoes thrive in humid conditions which produce rapid failure in materials lacking in resistance to corrosion, and Monel is therefore an economic choice as the metal for the fine wire-mesh screens used to cover windows in the tropics.

★

A "VEHEMENT dislike of new remedies" by a medical practitioner is rare and, as Mr. S. Brook, the managing director of Westminster Laboratories, Ltd., Chalcot Road, London, N.W.1, points out in a letter to the *British Medical Journal* (December 31, 1955, p. 1619) irrational. For where would medicine be today without "the innumerable drugs which pour from analytical laboratories" (the quotation is from the published letter of the doctor who expressed the

prejudice and shows in itself a curious ignorance of the functions of analysts). Mr. Brook quotes effectively from Sir Robert Hutchison's *Index of Treatment*, in which the author writes: "It is usually wise to be a little behind the fashion in matters of treatment; but whilst conservative, one should also be ready to accept methods of proved efficacy, no matter whence they come." Prudence is commendable, but to deny, from dislike of novelty, the benefits to a patient of drugs that have not the history of two or three years' use is surely to take caution too far.

★

A MISSIONARY in Basutoland, who found that a dealer was trying by every possible means to reach his pupils to sell them "beauty remedies," and tried to get some action taken against the peddling of a product which he had some reason to think toxic, found that his zeal was not very widely shared. In booklets sent out by the dealer, the missionary had seen advertisements for "horns," which are an adjunct of ritual murders among the Basutos. The dealer had apparently a line in "ready-made" horns, which he claimed had the power of making the owner popular among Europeans. They would also, according to the advertisement, make him successful in business and in love, and bring him victory in street fights. Samples of the pills sent to one of the pupils in the missionary's hostel are understood to have been poisonous. The missionary approached the State Information Office in Pretoria. The office approached another Government department—the Department of Native Affairs—and that Department, saying that it was powerless to restrict the dealer's activities, suggested that the South African Medical Council should be asked to take action. The Council discussed the matter and decided that it did not come within its jurisdiction. The question was then referred to the Secretary of Health. And, there, so far as any information that has reached us is concerned, the matter rests for the time being.

BRITISH FINE CHEMICALS AND THEIR USES

51. ARSENIOUS OXIDE

ARSENIOUS oxide (also known as arsenic trioxide or white arsenic) is supplied in B.P. lump and powder qualities, and as a commercial grade.

The oxide is recovered as a by-product from numerous metallurgical smelting and wet-extraction systems as well as from mispickel, either alone or mixed with other ores rich in arsenic. The process is nowadays carried out in electric furnaces in an atmosphere of nitrogen.

The medical applications of arsenious oxide are well known, though, because of its poisonous nature, many former uses have been supplanted. That change is also apparent in the industrial field. White arsenic remains, however, unsurpassed in the production of certain flint glass compositions, and is included in enamels, glazes, etc.

Formerly it was largely used (today to a lesser extent) in weed killers, insecticides, paints, and rat-poison compositions. Though more expensive, arsenate compositions are today preferred to arsenites in horticulture: they are less toxic to the foliage. It has been stated that the majority of arsenious oxide is utilised in the production of sodium arsenite, which is prepared by dissolving the oxide in solution of sodium hydroxide or carbonate. In water purification systems white arsenic has been used to a limited extent as a sterilising agent, and, mixed with soda, for boiler compounds. At one time vast quantities were consumed in aniline works for the reduction of nitrobenzene, but that use has since been superseded by alternative methods. As a textile mordant, however, it is still used and as a reducing agent in preventing the fixation of iron it finds limited application. It is employed as a hide preservative, in cattle-dip compositions, in pyrotechnic compositions, and in the manufacture of bullets and shot (reduction of arsenious oxide with lead permits the metal, on discharge from different heights into cold water, to form shot of precise size and unsurpassed spherical disposition).

Arsenious oxide is utilised on the large scale for separating iridium, etc., from goldsmiths' sweepings, according to an original French process.

WORLD TRADE

Italian Barter Deals. — The Italian Foreign Trade Ministry has approved some barter deals which foresee the purchase of about \$124,000 worth of coffee of Peruvian, Ecuadorian, Venezuelan and Haitian origin against the export of, among other things, tartaric acid.

Pakistan Import Licensing. — The Pakistan Government is issuing licences for the import of 211 items during the January to June shipping period under a new import policy. The items to be imported include medicinal products and drugs. Five items, including soda ash, are to be imported exclusively into East Pakistan.

Egyptian Export Permits. — The Egyptian Ministry of Finance and Economy has announced a list of commodities which can be exported without permits, on condition that invoices are paid in the currency of the country to which the goods are exported, or a stronger currency. The list includes medicinal plants and honey.

Fertiliser Factory for South Africa. — The British Information Office in Johannesburg reports that Fisons, Ltd., intend building a factory at a cost of about £3.5 millions to produce fertilisers in the Transvaal where there is a good demand. The company hope to make between 100,000 and 200,000 tons of superphosphate and from 150,000 to 300,000 tons of mixed fertilisers.

U.S. Resin-Turpentine Policy. — The U.S. Agriculture Department has announced a change in policy for export sales of Government-owned resin stocks to be effective from January 9 to the end of March. The Department said the Commodity Credit Corporation (C.C.C.) would offer exclusively for export, on a competitive bid basis, a quantity not to exceed 100,000 drums of resin of all grades to the extent that individual grades are available. The remainder of C.C.C. resin stocks and its gum turpentine holdings "will continue to be available for domestic purchases and use at fixed prices," the procedure under which domestic and export sales have been made since November 1954.

Indian Penicillin Plant. — The first penicillin plant in South-east Asia has been completed in India, the United Nations' Children's Fund (U.N.I.C.E.F.) has announced. The plant, valued at £1,070,000 (\$3 millions) has been built in Pimpri, Bombay, by the Indian Government with assistance from the United Nations. U.N.I.C.E.F. has contributed \$850,000 for imported equipment, and the U.N. Technical Assistance Administration has provided \$300,000 for planning, engineering and construction, and supervision of the initial operation. The Indian Government has invested \$2 millions in the project. The statement said that by next summer the plant, which started its trial runs last March, will have reached its first target production of 1,000 lb. of penicillin per month. The output will eventually go up to 2,500 lb. per month and plans are under way to purchase additional equipment to increase it.

UNITED STATES IMPORTS

More liberalisation urged

A REPORT calling for greatly liberalised United States trade policies, including repeal of the "Buy American" act and broader authority for the President to cut tariffs, has been issued by a Senate/House of Representatives subcommittee. It said the "basic choice open to the U.S. is one of international co-operation or of self-containment; only the former is a practical, long-run choice."

Recommendations

The subcommittee made several recommendations, in addition to new tariff cuts and repeal of the Buy American Act, which requires the Federal Government to buy from a domestic source unless a foreign bid is substantially lower. The other recommendations included:

(1) Approval by Congress of an agreement submitted by President Eisenhower calling for U.S. membership in the Organisation for Trade Co-operation, the new international organ set up under the

auspices of the General Agreement on Tariffs and Trade (G.A.T.T.).

(2) Continued American pressure for a return to free currency convertibility.

(3) Help for distressed domestic industries through "other solutions than new trade barriers."

(4) Limitation on the use of import quotas to "extreme emergency conditions."

(5) Further simplification and streamlining of the customs laws.

(6) Granting of authority to the President to override Tariff Commission decisions against foreign nations under the anti-dumping laws.

(7) A sharp restriction on the application of the escape clause under the Reciprocal Trade Agreements Act. This clause can be used by industries to seek to obtain relief from tariff cuts they say are too steep.

The report also criticised the argument that the U.S. must have high tariffs to meet competition from low-wage industries abroad.

POISONS LAW CHANGES

Amphetamines now S4

CHANGES in the Poisons List and Poisons Rules come into operation on January 20. The substances affected, with the changes shown in parentheses, are as follows:—

Amino alcohols [e.g. procaine] (the PI and S1 entries are amended to include the salts of those substances).

Beta-aminopropyl benzene and specified derivatives [the amphetamines] (S4; removed from S7).

Colchicine (entry in Part I of List is altered to colchicum, alkaloids of; and entry in S1 altered to colchicum, alkaloids of, except substances containing less than 0.5 per cent. colchicine; the entry colchicum, alkaloids of is added to S6).

Demeton (now PII, S1, Rule 14, S3 Group II, S5, S7 (para. 6), S8, S9 (in note appended to application form)).

Dextromethorphan (exempted S1 in substances containing less than 1.5 per cent.).

Diacetyl-N-allylnormorphine; its salts (PI, S1).

Dipipanone; its salts (PI, S1).

Disulfiram [Abstinyl, Cronetal] (preparations other than preparations for the treatment of human ailments exempt Pharmacy and Poisons Act and Poisons Rules (S3, Group II)).

Dithienylallylamine compounds; their salts (entry in S4 changed to dithienylallylamine compounds; their salts except diethylthiambutene, dimethylthiambutene and ethylmethylthiambutene).

Mazidox (PII, S1, Rule 14; S3, Group II, S5, S7 (para. 6), S8, S9 (in note appended to application form)).

6-Mercaptopurine; its salts (Purithol) (PI, S1, S4).

Methyldemeton (PII, S1, S8, S9 (in note appended to application form)).

Methylodesomorphine; its salts (PI, S1).

Nicotine (solid preparations containing less than 4 per cent. exempted from

S8 special requirements concerning transport including labelling requirements).

Sulphonamides (preparations for the treatment of coccidiosis in poultry exempted S4).

Sulphotepp (spelling changed to sulfo-tepp).

Tri-2(-chloroethyl)amine (spelling Changed to tri-(2-chloroethyl)amine).

Amendments to Rules: The ribbing requirements for containers (Rule 23) are extended to include bottles made of materials other than glass; containers of medicines containing S1 poisons issued for use in hospital wards, etc., must be labelled to indicate that the poison must be stored in a cupboard reserved solely for the storage of poisons and other dangerous substances (Rule 28); in every institution every S1 poison stored in the wards must be stored in a cupboard reserved solely for poisons and other dangerous substances (Rule 29).

The Statutory Instruments giving effect to the changes are The Poisons List (No. 2) Order, 1955 (S.I. 1955, No. 1977); and The Poisons (No. 2) Rules, 1955 (S.I. 1955, No. 1978). Copies of the Instruments are obtainable from H.M. Stationery Office, No. 1977 price twopence; and No. 1978 price threepence.

A forecast of the above changes in the Poisons List and Poisons Rules was given in the *C. & D.*, July 30, 1955, p. 113.

N.H.S. STATISTICS

In HEREFORDSHIRE during August 1955, the average cost per prescription was 52.9d.

In NORTHERN IRELAND during July 1955, 488,284 prescriptions (299,253 forms) were dispensed at a total cost of £134,194. Average cost per prescription was 65.96d. Figures for August 1955 were 526,703 (322,134), £144,413. Average, 65.8d.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," December 21, 1955

For sensitised photographic plates and films (1)
ISORAPID, 743,804, by Agfa A.G. für Photofabrikation, Leverkusen-Bayerwerk, Germany.

For chemical products for industrial purposes, but not including anti-freeze compounds or any goods of the same description (1)

Device with the wording MARKE AMPERE, 745,225, by Hermann C. Stark, A.G., Berlin, Germany.

For preparations of synthetic resins and waxes, the resins predominating, for use in industry (1)
MICROLAK, 745,515, by Astor Boisselier & Lawrence, Ltd., London, W.C.2.

For all goods (1)

MANOSCOPI, 745,900, by Hardman & Holden, Ltd., Plating, Manchester.

For chemical products and adhesive substances, for use in industry; powders, mould and core dressings and finishes, binding material, and moulding and core sand admixtures, all for use in foundries; and fluxes (1)

HARCO, 746,341, by Harborough Construction Co., Ltd. Market Harborough, Leics.

For chemical reagents for use in testing processes (1)

QUICMOR, 746,728, by Manchester Oil Refinery (Holdings), Ltd., Trafford Park, Manchester.

For chemical substances for use in the manufacture of lacquers (1)

LAROMIN, 746,828, by Badische Anilin- & Soda-Fabrik, A.G., Ludwigshafen-on-Rhine, Germany.

For adhesive substances for industrial purposes (1)

PERMA BOND, 746,908, by Decorative Floors, Ltd., Reigate, Surrey.

For non-medicated toilet preparations (3)

FRISCODENT, 722,719, by Eau de Cologne- & Parfümerie-Fabrik Glockengasse No. 4711, gegenüber der Pferdest von Ferd, Mulhens, Cologne, Germany. ACQUA DI SELVA, 743,583, by Victor S.R.L., Milan, Italy.

For cleaning, polishing, scouring and abrasive preparations (3)

DIVERSOL, 741,301, by the Diversey Corporation, Chicago, U.S.A.

For all goods (3)

MIXTAIL, 743,584, by Victor S.R.L., Milan, Italy. PENDLE, B745,713, by H. & S. Products, Ltd., Todmorden, Lancs.

For all goods (5)

CYCLODIN, 735,998, by Roche Products, Ltd., Welwyn Garden City, Herts. ANCILLA, 746,605, by N.V. Papierfabriek Gennep, Gennep, Holland. RIMS, 746,878, by Moore Medicinal Products, Ltd., Aberdeen. BOBAM, 746,917, by Owen Edward Roberts, Merthyr Tydfil, Glam.

For dietetic foods (unmedicated) (5)

ROSELLA, 707,453, by the Rosella Preserving and manufacturing Co., Ltd., Richmond, Victoria, Australia.

For medicated plasters (5)

SALONPAS, 741,413, by Hisamitsu Brothers & Co., Inc., Saga, Japan.

For medicinal preparations for the treatment of hypochromic anemia and secondary anemia (5)
FAB, B742,208, F.A., 742,209, by Medical Research Pty., Ltd., Sydney, Australia.

For preparations for killing weeds and destroying vermin; and insecticides and herbicides (5)

KILWID, 742,352, by Fisons Pest Control, Ltd., Bourn, Cambs.

For pharmaceutical preparations and substances (5)

BECLYSYL, 742,965, by Abbott Laboratories, Chicago, U.S.A. SALINOR, 743,592, by Wallace Manufacturing Chemists, Ltd., London, N.W.3. BIOTAB, 746,427, by Boots Pure Drug Co., Ltd., Nottingham.

For infants' and invalids' foods (5)

MELBRAY, 744,214, by Melbray, Ltd., London, S.W.6.

For pharmaceutical shampoos for use in the treatment of dandruff (5)

SELUKOS, 746,032, by Aktiebolaget Kabi, Stockholm, Sweden.

For infants' and invalids' foods and dietetic foods (5)

VITABREK, 746,051, by F. W. Hampshire & Co., Ltd., Derby.

For antibiotic pharmaceutical preparations (5)

STREPTISTAB, 746,429, by Boots Pure Drug Co., Ltd., Nottingham. TETRIN, 744,407, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1.

For insecticides, fungicides, acaricides and weed-killing preparations (5)

AKOMOR, 746,562, by Bayer Agriculture, Ltd., London, S.W.1.

For teething rings and teething beads, all made of plastics (10)

ST. BERNARD, 736,507, by Crayonne, Ltd., Bexley, Kent.

For surgical prophylactic appliances made of rubber (10)

PRELUBES, 746,626, by Phelps Surgical Appliances, Ltd., London, N.15.

For hot-water bottles (21)

SUBA-FLORA, 746,245, by William Freeman & Co., Ltd., Barnsley, Yorks.

For artificial sponges (21)

VISPONGA, 746,705, by Kalle & Co., A.G., Wiesbaden-Beirbrich, Germany.

From the "Trade Marks Journal," December 30, 1955

For mounting media being chemical products for use in biology and microscopy (1)

XAM, 743,680, by George T. Gurr, Ltd., London, S.W.6.

For chemical products used in agriculture and horticulture; and seed dressings (1)

Device, 743,731, by Bayer Agriculture, Ltd., London, S.W.1.

For carrageenates being chemical substances for use in industry (1)

FLORICOL, 744,194, by Alginate Industries, Ltd., London, W.C.2.

For chemical substances and chemical products for use as fillers in the manufacture of elastomers (1)

CORAX, 744,537, by Deutsche Gold- und Silberscheideanstalt vormals Roessler, Frankfurt, Germany.

For chemical products used in industry (1)

CRISEOCICLINA, 744,966, by Farmaceutici Italia, S.A., Milan, Italy.

For chemical substances used as dispersing agents in industrial processes (1)

ALTAMOL, 746,331, by Badische Anilin & Soda-Fabrik, A.G., Ludwigshafen, Germany.

For artificial fertilisers (1)

Device, 746,109, by Redoxit G.m.b.H., Hamburg, Germany.

For chemical substances used as auxiliary agents in the rubber industry (1)

LATAMOL, 746,332, by Badische Anilin & Soda-Fabrik, A.G., Ludwigshafen, Germany.

For non-medicated toilet preparations (3)

COVICONE, 736,108, by Abbott Laboratories, Chicago, U.S.A. LOREL, 740,037, by Arthur Berton, Ltd., London, E.C.1.

For hair-colouring rinses (3)

Device with the wording NOREEN SUPER COLOR RINSE, 743,455, by Noreen, Inc., Denver, U.S.A.

For toilet preparations for tinting or improving the colour of the hair (3)

Device with the wording CAMILATONE TONRINZ COLOUR RINSE, 745,661, by Camilatone, Ltd., London, N.W.9.

For anthelmintics (5)

HELMOX, 742,638, by Imperial Chemical (Pharmaceuticals), Ltd., London, S.W.1.

For depilatory preparations (3)

NUDIT, 747,200, by Helena Rubinstein, Ltd., London, W.1.

For detergents (not for use in industrial and manufacturing processes) (3)

UNIGLAN, 746,588, by George Hall, Nuneaton, Warwicks.

For soap for sale in Northern Rhodesia (3)

OLD HOME, 747,344, by Rhodesian Industries Co. (Private), Ltd., Salisbury, Southern Rhodesia.

For pharmaceutical preparations containing derivatives of theophylline (5)

NEUTRAPHYLLINE, 725,880, by Jean Maurice René Alfred Delourme-Houde, Paris, France.

For pharmaceutical preparations and substances (5)

NOKHEL, 725,881, by Jean Maurice René Alfred Delourme-Houde, Paris, France.

For insecticides, fungicides, weed-killing preparations, disinfectants (5)

Device, 743,732, by Bayer Agriculture, Ltd., London, S.W.1.

For all goods (5)

BOCASAN, 745,332, by Knox Laboratories, Ltd., London, W.1. CARAGOL, 745,660, by Owen Edward Roberts, Merthyr Tydfil, Glam.

For veterinary preparations (5)

Device with wording CELA, 745,431, by Cela Landwirtschaftliche Chemikalien G.m.b.H. HIPPOFOR, 746,677, by N.V. Phlips Roxane Pharmaceutisch-Chemische Industrie Duphar, Weesp, Holland

For pharmaceutical antacid preparations and substances (5)

HYCAPID, B745,678, by Bengel Laboratories, Ltd., Ches.

For medicated toilet paper (5)

NOVOTEX, 745,769, by Cumberland Paper Co., Ltd., Cleator, Cumberland.

For medicated creams containing camphor (5)

KEAGRAMS, 746,094, by Keatings Pharmaceuticals, Ltd., Johannesburg, South Africa.

For pharmaceutical preparations for the treatment of liver affections (5)

ICTERYL, 746,352, by Michel Delalande, Paris, France.

For sterilising compounds (5)

UNIGLAN, 746,856, by George Hall, Nuneaton, Warwicks.

For medicinal preparations for use in the treatment of peptic ulcers (5)

BISLUMINA, 747,047, by Mining & Chemical Products, Ltd., London, W.C.2.

For sunglasses (9)

GAYLADY, 746,811, GAYLORD, 746,812, by M. Wieman & Co., Ltd., London, N.1.

For non-medicated toilet paper (16)

NOVOTEX, 745,770, by Cumberland Paper Co., Ltd., Cleator, Cumberland.

From the "Trade Marks Journal," January 4

For paper, plates and films, all being sensitised for use in photography; and photographic chemical substances (1)

ANSCO, 704,107, by Agfa Camera Werk München, Munich, Germany.

For adhesive substances used in industry (1)

FABREXA, 744,060, by British Glues & Chemicals, Ltd., Welwyn Garden City, Herts.

For chemical products used in industry (1)

KOLENE, 746,267, by Kolene Corp., Detroit, U.S.A.

For non-medicated toilet preparations (3)

Device and word AVON, 741,362, by Avon Products of Canada, Ltd., Montreal, Canada.

For hair dyes (3)

Device and word CLAIROL, 741,932, by Klacrol-Produktion G.m.b.H., Hamburg, 36, Germany.

For solvents being cleaning preparations (3)

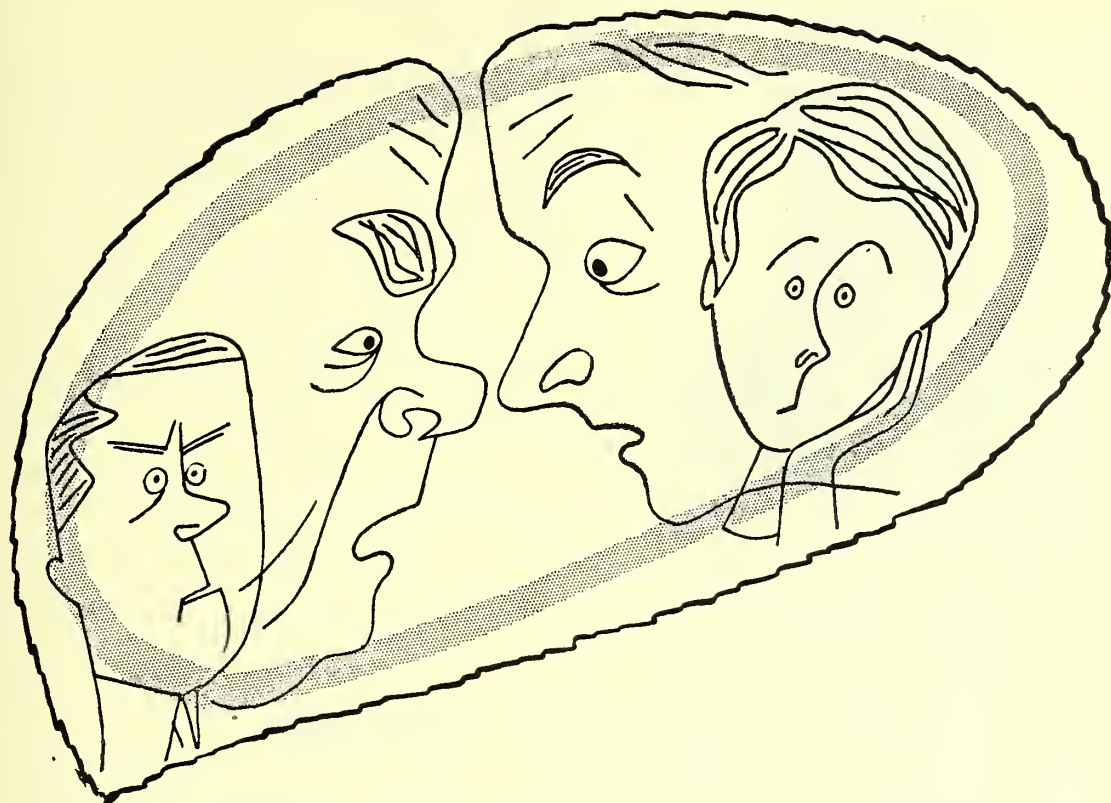
GUMOUT, B744,478, by Pennsylvania Refining Co., Butler, Pennsylvania, U.S.A.

For all goods (3)

RING O' ROSES, 747,138, by Southalls (Birmingham), Ltd., Birmingham, 8. LIOZYM, ORALASE, 747,333-4, by Rohm & Hass G.m.b.H., Darmstadt, Germany.

For anaesthetics (5)

CELECAINE, 742,116, by Cilag A.G. (Cilag S.A.) (Cilag, Ltd.), Schaffhouse, Switzerland.



for the liverish

Whenever a biliary stimulant is required, in cases of 'bilious attack' or constipation, you can recommend Veracolate with the utmost confidence.

To do so, of course, you must have Veracolate in stock.

Veracolate

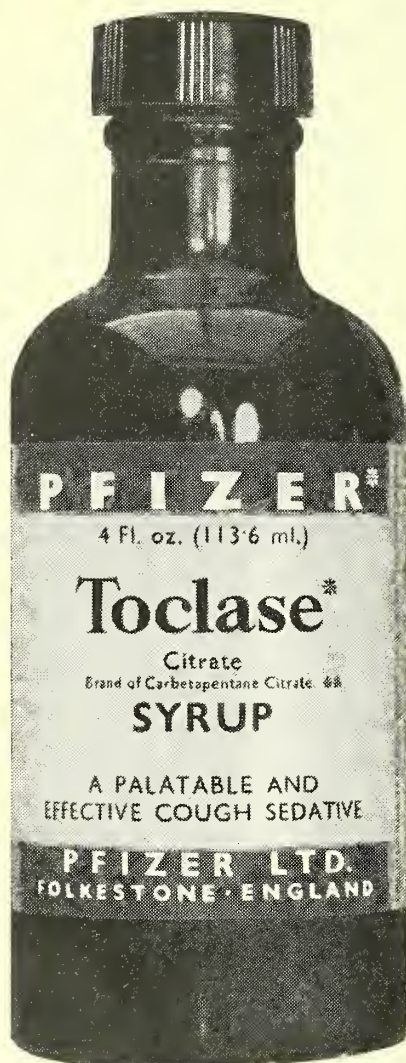
No Warner preparation has ever been advertised to the public.

Veracolate is available in bottles of 50 and 100 tablets, at 3/4 and 6/7 each, inclusive of P.T.

List prices 28/6 and 48/6 per dozen, exclusive of P.T.

Dispensing bottles of 500 tablets supplied to chemists at 15/- each, not subject to P.T.

WILLIAM R. WARNER & CO. LTD., Power Road, London, W.4.



***To cough
or not
to cough?***

TOCLASE*

BRAND OF CARBETAPENTANE CITRATE

COUGH SYRUP

The new selective prescription for cough control.

TOCLASE COUGH SYRUP is not related to opium alkaloids or their derivatives. It acts *selectively* on the central nervous system. It eliminates useless unproductive cough. It moderates purposeful cough. And, though more potent than codeine, it is entirely non-toxic—even in over-dosage. TOCLASE is non-habituating and is well tolerated by children as well as adults.

TOCLASE will become a prescription of choice because it is —

● **selective** ● **effective** ● **non-narcotic** ● **palatable** ● **safe** ● **well tolerated**

Stocks of TOCLASE COUGH SYRUP (4 oz. bottles) are obtainable from your usual wholesaler.



WORLD'S LARGEST PRODUCER OF ANTIBIOTICS

PFIZER LTD • FOLKESTONE • KENT

*Reed. Trade Mark.

TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, JANUARY 11: Inquiry in all sections of the markets during the week was dull, and trading provided few interesting features. Among CRUDE DRUGS, the asking price for prime Cape ALOES for shipment, was up again by 10s. per cwt.

ERGOT remained a weak commodity with Portuguese material easier by sixpence per lb. on the spot. Also easier were CAMPHOR powder, with offers of B.P. material at about ninepence per lb. under the previous level and Chinese star ANISE 15s. per cwt. lower at 145s., duty paid. MERCURY is currently quoted 10s. per flask lower. HONEY supplies continue very tight with Australian light-amber about 2s. per cwt. dearer. Jamaican new-crop honey is expected to be ready earlier this year and the first consignments should be shipped in February. Canada BALSAM was dearer by one-shilling per lb. but other balsams were unchanged. Among SPICES, Jamaican GINGER is now very scarce; fair business was done in PEPPER at slightly lower levels and new-crop TURMERIC was 2s. 6d. per cwt. cheaper for shipment.

In PHARMACEUTICAL CHEMICALS, ZINC OXIDE was marked up again by £4 per ton, because of the high cost of the metal. However, the value of the metal subsequently declined, following an announcement of a cut-back in car production by some British and American car manufacturers. Whether the metal will fall sufficient to affect the oxide, remains to be seen. The TROPANE ALKALOIDS that are now manufactured synthetically, have been reduced by substantial amounts, but HYOSCINE which is produced from natural sources, is scarce and dearer, the price varying according to holder. SANTONIN prices have been reduced for the home market by £7 10s. per kilo.

In ESSENTIAL OILS, Chinese ANISE was slightly firmer at 17s. 7½d. per lb., whilst Bourbon VETIVERT was dearer by 2s. 6d. Such other price changes as occurred were in a downward direction and included Cevlon CITRONELLA (down sixpence per lb.), Madagascar CLOVE LEAF (5s.), Ceylon CINNAMON LEAF (one shilling), LEMONGRASS (sixpence).

Pharmaceutical Chemicals

ASPIRIN. — Prices are as follows:—5-cwt. lots, 4s. 7d. per lb.; 1-cwt., 4s. 7½d.; 28-lb., and under 1-cwt., 5s. 5d. Smaller lots from 5s. 7½d. to 6s. 2½d., as to quantity and package.

ATROPINE. — Rates (per oz.) for 16-oz. lots are: ALKALOID, 23s. 6d.; SULPHATE, 19s. 6d.; METHONITRATE, 19s. 6d. METHYLBROMIDE, 25s. 6d. Quotations for 1-oz. lots are 1s. 6d. dearer.

BUTOBARBITONE.—B.P.C. is 70s. per lb. in 1-cwt. lots.

CALCIUM GLUCONATE. — Quantities of 3-cwt. and upwards are quoted at 3s. 9d. per lb.; 1-cwt. to 2-cwt., 3s. 10d.

CHLORIBUTOL.—28 lb. lots are at the rate of 10s. per lb.

CHLOROFORM.—1-cwt. lots in winchesters are 3s. 6d. per lb.; 56-lb., 3s. 6½d. In drums, prices are 3s. 4d. and 3s. 4½d.

GUAIACOLS. — LIQUID, B.P., is 16s. 3d. per lb. for 28-lb. lots; CRYSTALS, 16s. 9d.; CARBONATE, 18s. 3d.

HEXAMINE.—B.P. is 1s. 11½d. per lb. for 1-ton lots, delivered in 1-cwt. kegs (1s. 11d. in paper bags). Technical is one penny per lb. under those rates.

HOMATROPINE.—Current rates (per oz.) for 16-oz. lots are now: ALKALOID, 28s. 6d.; HYDROBROMIDE, 23s. 6d.; HYDROCHLORIDE, 27s. 6d.; METHYLBROMIDE, 24s. 6d. 1-oz. rates are 1s. 6d. per oz. higher in all cases.

HYDRAZINE HYDRATE. — Price per ton is £153 for the 10 per cent. (w/v) solution and £33 for the 2½ per cent.

HYDROCYANIC ACID. — Dilute B.P.C. is from 1s. 4d. to 1s. 11d. per lb., as to quantity; Scheeles is from 1s. 8d. to 2s. 3d.

HYOSCINE HYDROBROMIDE. — Scarce. 1-oz. lots are from 97s. 6d. and 16-oz. lots from 95s. per oz.

IODINE.—Resublimed is 17s. 1d. per lb. in 1-cwt. lots. Minimum delivered rate for CRUDE is 22s. 10d. per kilo.

IRON SALTS. — SULPHATE, B.P. crystals are 8d. per lb. in 28-lb. lots; 1-cwt., is 46s. 3d. per cwt. and 5-cwt., 43s. 9d. per cwt. Granulated and pea crystals are 2s. 6d. per cwt. more; SULPHATE, EXSICATED is 1s. 2d. per lb. for 28-lb., 1 cwt., 103s.; 5-cwt., 99s. per cwt.; 1-cwt. fibre kegs free, other packages extra. PHOSPHATE, SACCHARATED, B.P.C., 28-lb. lots are 3s. 3d. per lb. OXIDE, RED PRECIPITATED, B.P.C., 1-cwt., 1s. 8½d. per lb.; CARBONATE, SACCHARATED, B.P.C., 28-lb., 2s. 8d., 1-cwt., 2s. 5d.

LACTOSE.—English, in 1-ton lots packed in 1-cwt. paper-lined sacks, is £137 per ton, delivered in the United Kingdom.

NICOTINAMIDE. — Prices per kilo are now: 1 kilo, 92s. 6d.; 10 kilos, 90s.; 50 kilos, 88s. 6d.

PAPAVERINE.—Synthetic HYDROCHLORIDE is from 355s. to 360s. per kilo. ALKALOID, 405s. to 415s.

PARAFFINS.—Prices to wholesale distributors are:—Liquid: HEAVY, B.P., £103 2s. 6d. per ton; LIGHT, B.P., £83; Technical White oils, £72 15s. for the LIGHT and £86 5s. for the MEDIUM, all in 40–55 gall. returnable loaned drums, delivered U.K. Soft: WHITE, medium consistency is now £101 per ton, WHITE, soft consistency, £98 17s. 6d., and YELLOW, £78 17s. 6d. all B.P., in non-returnable drums delivered. Hard: Melting point 135/140° F., is £82 12s. 6d. and 145/150° F., £88 12s. 6d. per ton, in minimum 1-ton lots.

PHENAZONE.—Minimum price for quantity is 13s. 10½d. per lb. with usual differentials for smaller lots. 1-cwt. is now 14s. 1½d. per lb.

PHENOL. — Basic price for crystals in drums is 1s. 4d. per lb., and for LIQUID, B.P., 1s. 3½d.

PHENYTOIN SODIUM. — B.P. is 23s. per lb. in 1-cwt. lots.

PHYSOSTIGMINE.—Scarce. Current rates per oz. are:—SALICYLATE, 1-oz., 282s.; 4-oz., 276s. SULPHATE, 358s. and 352s. respectively.

PILOCARPINE. — In 100-oz. (or 2½-kilo) lots prices are: HYDROCHLORIDE, 42s. 6d. per oz. (1,428s. 6d. per kilo); NITRATE, 38s. per oz. (1,340s. per kilo).

POTASSIUM ACETATE.—B.P. is 2s. 8d. per lb. in 1-cwt. lots.

POTASSIUM CHLORIDE.—In 1-cwt. lots B.P., is 1s. 6d. per lb.

POTASSIUM NITRATE. — Pharmacopœial quality is 145s. per cwt. (crystal, granular or powder) and commercial, 90s.

POTASSIUM PERMANGANATE. — Rate for B.P. material for 1-cwt. lots is 1s. 9d. per lb., and for technical, 183s. 6d. per cwt.

PROCAINE HYDROCHLORIDE. — 1-cwt. lots are 30s. per lb.

PYROGALLIC ACID. — Pure crystals are 18s. per lb. in 1-cwt. lots.

RESORCINOL. — 1-cwt. lots are now quoted at 13s. per lb. by manufacturer.

SODIUM METABISULPHITE. — Granular in 1-ton lots is from £46 2s. 6d. to £50 7s. 6d. per ton according to packing.

SODIUM PHOSPHATE. — B.P. powder is 125s. per cwt.

SODIUM SULPHATE.—Makers' prices for B.P. range from £11 10s. to £18 17s. 6d. per ton as to crystal and quantity, ex works.

SODIUM THIOSULPHATE. — Makers' price for 1-ton lots in paper-lined bags is £35 15s. per ton.

SALICYLAMIDE. — Price (per lb.) for 1-cwt. lots is 8s. 6d.

SALICYLIC ACID. — Prices are now: 5-cwt. lots in bulk, 3s. 0½d. per lb.; 1-cwt., 3s. 1d.; 28-lb. and under 1-cwt., 3s. 8d.

SANTONIN. — The following prices (per kilo) apply in the home market, including Eire:—25-kilo lots, 800s.; 10-kilo, 860s.; 5-kilo, 880s.; 1-kilo, 900s.

TANNIC ACID. — The B.P. levis, ex ether is quoted at 4s. 9d. per lb. for 5-cwt. lots and 5s. per lb. for 1-cwt.

TERPINEOL. — Prices of B.P. grade are from 3s. to 3s. 6d. per lb., as to quantity.

TERPIN HYDRATE. — Prices are from 5s. per lb. upwards as to quantity.

ZINC CHLORIDE. — B.P.C., cake from 4s. 6d. to 4s. 10d. per lb.; sticks from 5s. 10d. to 6s. 2d. per lb. TECHNICAL, 153s. per cwt.

ZINC OXIDE. — Again dearer. Rates for B.P. quality are now: 2-ton lots, £139 per ton; 1-ton, £140; 5-cwt., £142; under 5-cwt., £145 delivered.

ZINC SULPHATE.—B.P. in 1-cwt. lots is quoted at 1s. 2d. per lb.; 28-lb., 1s. 5d.

Crude Drugs

ACONITE. — Spot supplies of Spanish *napellus* are 4s. per lb., duty paid.

AGAR. — *Kobé* No. 1 is 12s. per lb., in bond. New-crop offers are easier at 10s. 9d., c.i.f., for January–February shipment.

ALOES. — Prime Cape on the spot is 330s. per cwt. A parcel for shipment is offered at 320s., c.i.f. Curaçao for shipment, 325s., c.i.f.

ANISEED (STAR). — Chinese is offered at 145s. per cwt., duty paid.

ARECA NUTS. — Quotations are from 40s. to 55s. per cwt. as to quality on the spot. Shipment, 45s., c.i.f.

BALSAMS.—Quotations (per lb.) are:—Canada: spot offers are now 21s. *Copaiba*, soluble, 8s., duty paid. *Peru*, 10s., duty paid and for shipment at 8s. 9d., c.i.f. *Tolu* (genuine as imported) is 25s. 6d.; B.P. is 17s. 6d., spot.

BELLADONNA. — Root is offered at from 1s. 10d. to 2s. 3d. per lb. as to test, and LEAVES testing 0.714 per cent. are quoted at 3s. 9d., duty paid.

BENZON.—Sumatra block on the spot is from £25 to £32 per cwt. No. 1 for shipment is £24 5s., c.i.f. Almonds, 15s. per lb., c.i.f.

BISMUTH METAL.—Minimum rate is 16s. 6d. per lb.

CAMPHOR.—B.P. POWDER is from 5s. 9d. to 6s. 6d. per lb., duty paid as to origin. TABLETS, $\frac{1}{4}$ -oz. are 7s. 6d., duty paid, and 6s. 6d., c.i.f.

CAPRICUMS.—East African on stalk are 150s. per cwt. spot, Abyssinian, off stalk, 180s., spot, duty paid.

CARDAMOMS.—Aleppy greens are 15s. 3d. per lb. on the spot; prompt shipment, 12s. 6d., c.i.f. Seeds on the spot are 24s.

CASCARA SAGRADA.—American peel is from 250s. per cwt., duty paid.

CASSIA BARK.—Whole on the spot is about 90s. per cwt., in bond, and for forward delivery, 80s., c.i.f. Broken, 75s., in bond, and 67s. 6d., c.i.f.

CHAMOMILE.—Belgian flowers are 5s. 3d. per lb. on the spot.

CHERRY BARK.—Thin natural is from 1s. 6d. per lb., duty paid, and rossed, 2s., on the spot.

CINNAMON.—Ceylon for shipment (c.i.f.) per lb., OOO, 5s. 10½d.; OO, 5s. 9d.; O, 5s. 7½d.; firsts, 4s. 7d.; quillings, 2s. 8d.; chips, 8½d. to 9½d.

CLOVES.—Zanzibar on the spot are now quoted at 3s. 2½d. per lb.; prompt shipment, 3s. 0½d., c.i.f.

COCILLANA.—Bark is 2s. 6d. per lb. on the spot.

ERGOT.—Portuguese on the spot is 10s. 6d. per lb.; forward, 9s. 9d., c.i.f.; Polish is 7s.; Hungarian, 12s., and American, 10s., all on the spot.

GINGER.—African is offered on the spot at 240s. per cwt. with sellers for shipment at 220s., c.i.f., for old crop. Spot Jamaican is 500s.

GUM ACACIA.—Kordofan cleaned sorts on the spot are 140s. per cwt. and prompt shipment, 128s., c.i.f. New-crop, January–March shipment, 126s. to 127s. 6d., c.i.f., as to date.

HONEY.—Australian light-amber is offered on the spot at from 132s. to 142s. per cwt.; medium-amber is difficult to find at 130s.; Argentine, 140s.; Jamaican, 145s.; new-crop expected to be shipped in February.

IPECACUANHA.—Nicaraguan is offered for shipment at about 60s. per lb., c.i.f., February delivery; Colombian at 50s., c.i.f. Spot Colombian is 54s.; Nicaraguan, 66s. 6d.; Matto Grosso, 57s. 6d.

KARAYA.—No. 1 gum on the spot is quoted at 310s. per cwt., and No. 2 at 265s.

LOBELIA HERB.—Scarce on the spot at 13s. 6d. per lb. No offers from origin.

MENTHOL.—Chinese is 48s. per lb., duty paid, and from 43s. 9d. to 45s., c.i.f., as to position. Brazilian is 46s. 6d., duty paid.

MERCURY.—Nominal spot value is £88 10s. to £89 per flask of 76-lb. ex warehouse.

NUTMEGS.—West Indian for shipment official prices 3s. 3d. per lb. for wormy and broken; 4s. 7d. for unassorted, f.o.b. terms.

PAPAIN.—Spot value for East African grade one is from 17s. to 17s. 6d. per lb. Ceylon brown is 14s. per lb., c.i.f. and spot.

PEPPER.—Slightly lower. White Sarawak on spot is 2s. 11½d. per lb. and for January shipment up to 2s. 10½d., c.i.f., is quoted. Black Sarawak is 2s. 1½d. per lb., spot and January shipment, 2s. 0½d., c.i.f. Black Malabar is 32s., per cwt., spot and January shipment 260s., c.i.f.

SAFFRON.—Nominal spot value of Mancha superior is 250s. per lb.

SARSAPARILLA.—Jamaican native red on the spot is 3s. 6d. per lb. and for shipment, 3s. 1½d., c.i.f.

SEEDS.—(Per cwt.). **ANISE.**—Quiet. Tunisian is 250s., duty paid; Spanish, 270s., duty paid; Bulgarian, 195s., duty paid. **CARAWAY.**—Dutch unchanged at 150s., duty paid. **CELERY.**—Indian offering at 130s., spot London. **CORIANDER.**—Quiet on the spot. Moroccan is nominal 95s., duty paid; Danubian or Rumanian, 66s., duty paid. Shipment Moroccan are easier with sellers quoting 68s. 6d., c.i.f., London. **CUMIN.**—Less active. Spot Cyprian is 132s. 6d.; Moroccan, 135s., duty paid; Iranian, 130s., duty paid. Shipment, Cyprian is offering at 116s.; Moroccan lower at 125s., both c.i.f. London. **DILL.**—In poor demand with Indian offering at 65s., spot. **FENNEL.**—Indian offering at 87s. 6d. and Chinese at 85s., in bond. **FENUGREEK.**—Very little available on spot at 75s. Moroccan for shipment is quoted at 61s., c.i.f.; Indian, 65s., c.i.f. **MUSTARD.**—English 57s. 6d. to 80s., according to quality.

SENEGA.—Spot is 21s. per lb. Shipment from 20s., c.i.f.

SENNA.—*Timvelly* LEAVES (per lb.). New wet-crop Prime No. 1, 1s. 1½d., and No. 2, 11d.; prime No. 3, 8d.; f.a.q., No. 3, 7d., spot; PODS, f.a.q., 6d., c.i.f. *Alexandrian* manufacturing pods, 1s. to 1s. 3d., spot; hand-picked are from 4s. 6d. to 6s. 6d. per lb. as to quality.

SERPENTARIA.—Offers for shipment are quoted at 40s. per lb., landed terms.

SHELLAC.—F.O.T.N. is 370s. per cwt.; F.O. No. 1, 390s.; fine orange, 400s. to 460s.

TURMERIC.—Madras finger on the spot is 160s. per cwt. New crop for April–May shipment is quoted at 105s., c.i.f.

VANILLIN.—Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

Essential and Expressed Oils

ALMOND.—B.P. is nominal at 11s. per lb.

AMBER.—Rectified on the spot quoted at from 1s. 6d. per lb.

ANISE.—Chinese is slightly firmer at 17s. 7½d. per lb. on the spot and 16s. 10½d., c.i.f.

ANGELICA SEED.—Price per lb. is now quoted at 225s.

CAMPHOR, WHITE.—Chinese is 2s. 3d. per lb., duty paid.

CARDAMOM.—Price per lb. is from 360s. for English distilled and from 265s. to 295s. for imported.

CHENOPodium.—Spot supplies are about 34s. per lb. Shipment value, 27s., c.i.f.

CITRONELLA.—Ceylon is unchanged at 6s. 4d. per lb. on the spot with shipment easier at 5s. 10d., c.i.f.; Formosan spot is 15s., in bond, with forward at 14s. 6d., c.i.f. Java type is not quoted.

CLOVE.—Madagascar leaf is 9s. 3d. per lb., duty paid and 8s. 9d., c.i.f., for shipment. Rectified 87–88 per cent., 14s.; distilled bud oil, English, from 35s.; imported, 17s. 6d.

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

DILL.—B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are scarce at 36s. per lb.

FENNEL.—Spanish sweet on the spot is quoted from 12s. per lb. with Russian at 18s. 6d.

GARLIC.—English is 55s. per oz.

GERANIUM.—Bourbon is 87s. 6d. per lb. on the spot.

GINGER.—English-distilled oil is 205s. per lb. Imported oils are now 170s. per lb., duty paid.

GINGERGRASS.—Offers are from 30s. to 31s. per lb.

GRAPEFRUIT.—Australian cold pressed is 16s. per lb., spot; Californian, 17s., c.i.f., subject to licence.

LEMON.—Prices of B.P. oil (4 per cent. citral) vary greatly on the spot according to quality and range between 20s. and 50s. per lb. Californian, 28s. 6d. to 43s. 7½d., c.i.f., as to quality, subject to licence.

LEMONGRASS.—Quiet. Spot is 13s. 6d. per lb., and 12s. 10d., c.i.f.

LIME.—Supplies of West Indian distilled are offered from 30s. to 35s. per lb., on the spot.

ORANGE.—Spot quotations include: Florida at 4s. 6d. per lb.; Californian, 5s. 9d.; Jamaican, 7s. 6d. and West African, 12s. 6d. For shipment, proprietary brand Californian sweet is 6s., c.i.f., and cold-pressed, U.S.P., 9s. 3d., c.i.f., subject to licence. West African, 12s., c.i.f. Terpeneless is 210s. per lb., spot. Bitter orange oil is 20s. per lb.

PALMAROSA.—East Indian is from 62s. 6d. per lb. on the spot and from 55s., c.i.f., for January–February shipment. Madagascar is 55s., spot.

PATCHOULI.—Penang is 48s. 6d., duty paid, and 42s., c.i.f.

PENNYROYAL.—Spot is quoted at 23s. 6d. per lb., duty paid.

PEPPERMINT.—*Arvensis*: Chinese is 32s. 9d. per lb. on the spot and also 32s. 9d., c.i.f. Brazilian, 30s., spot and 25s. 6d., c.i.f. Italian “Mitcham”-type oil is from 65s., spot, and American, 42s. 6d. to 47s. 6d.

PINE.—*Pumilionis* on the spot is from 16s. per lb.; *sylvestris*, 9s. Siberian (*abietis*), 12s. 6d.

SANDALWOOD.—Mysore is scarce at 100s. per lb. on the spot. West Indian is 15s. per lb.

SASSAFRAS.—Brazilian is 7s. per lb., duty paid.

SPEARMINT.—Offers of U.S. oil for shipment are about 35s. 6d. per lb., c.i.f., with spot at 39s. 6d. Dutch quoted at 38s. 6d., duty paid, with Chinese offered at 27s. 6d.

TANGERINE.—Sicilian is from 35s. to 36s. per lb. on the spot; Californian is 17s. 6d.

THYME.—Spot is 12s. 6d. per lb. for the red, 40 per cent. phenols.

VETIVERT.—Bourbon in original drums on the spot is 85s. per lb.

UNITED STATES REPORT

NEW YORK: JANUARY 10: Price advances on January 1, announced previously, raised INDUSTRIAL ALCOHOL two cents per gall. to set the base price for 190 proof at 42 cents. ISOPROPYL ALCOHOL was increased by the same amount, while advances became effective on other alcohols. FORMALDEHYDE was reported strong with indications of a further increase in demand. Also higher were the TITANIUM DIOXIDES. LACTOSE, U.S.P., was cut 2½ cents to 21½ cents a lb. With Brazilian material remaining soft, Japanese MENTHOL declined 50 cents to \$8.50 per lb. SALICYLATES were firm and active owing to seasonal influences, and good quantities of synthetic VITAMINS moved out to tablet manufacturers.

Higher per lb. among ESSENTIAL OILS were MACE, at \$5.00 (up 35 cents), FENNEL, \$2.75 (20 cents); and oleoresin GINGER, at \$6.75 (50 cents). SANDALWOOD declined 50 cents to \$16.75 per lb. while SAFROL eased to \$1.10 (down 20 cents).

WILLS

MR. B. S. ADDERLEY, 6 Fearnley Road, Welwyn Garden City, Herts (a director, British Glues and Chemicals, Ltd.), left £23,339 (£23,211 net).

MR. H. F. BAIRO, M.P.S., 2 Cambridge Gardens, Hastings, left £2,439 (£1,920 net).

MR. R. E. BAKER, 28 Withdean Crescent, Brighton (a director, Richard Baker & Co., Ltd.), left £16,528 (£16,454 net).

MR. J. W. BEATTIE, M.P.S., 19 Merryfield, Blackheath, London, formerly of 28 Easter Road, Edinburgh, left £4,663 (£4,600 net).

MR. F. J. M. BENGUE, 1 Wentworth Road, London, N.W.11 (chairman and governing director, Bengue & Co., Ltd.), left £24,089 (£23,307 net).

MR. J. CADDOP, M.P.S.I., The Diamond, Clones, co. Monaghan, left estate in England and the Republic of Ireland valued at £15,714.

MR. J. E. CHAPMAN, M.P.S., 106 Weelsby Road, Grimsby, left £23,128 (£23,054 net).

MISS A. CHARLES, M.P.S., 82 The Grove, Christchurch, Hants, left £7,231 (£7,121 net).

MR. O. F. COLLINS, M.P.S., Hillcrest, Withdean Road, Brighton, left £77,740 (£77,110 net).

MR. G. C. DELPH, M.P.S., High Street, Watton, Norfolk, left £4,332 (£4,157 net).

MR. H. W. GADD, M.P.S., 6 Park Place, Womford Road, Exeter (chairman, Evans, Gadd and Co., Ltd.), left £7,857 (£7,764 net).

MR. J. GARRUTT, M.P.S., 14 Granville Court, Newcastle-on-Tyne, left £2,145.

MR. F. J. GOOWIN, M.P.S., 40 Grange Road, Woodthorpe, Notts, left £5,842 (£5,767 net).

MR. R. J. T. HAGYARD, M.P.S., 325 Tettenthall Road, Wolverhampton (managing director, E. E. Hall & Co., Ltd.), left £18,491 (£18,411 net).

MR. H. G. HANKS, M.P.S., 71 Cricklade Road, Swindon, Wilts, left £8,814 (£7,929 net).

MR. A. W. HANSON, M.P.S., 39 Rectory Lane, Sidcup, Kent, left £10,383 (£10,282 net).

MR. B. A. E. HARMAN, F.P.S., Worth Cottage, Haydon, Somerset, left £6,475 (£4,730 net).

MR. G. C. HARMER, M.P.S., 47 South Street, Eastbourne, Sussex, left £9,113 (£9,026 net).

MR. A. H. A. HARRINGTON, M.P.S., 25 Woodland Avenue, Hove, Sussex, left £20,914 (£20,847 net).

MR. C. A. L. HIBBS, M.P.S., 551 Cheetham Hill Road, Manchester, 8, left £8,639 (£7,351 net).

MR. R. B. HILL, M.P.S., Ilex Lodge, Axbridge, Somerset, left £10,788 (£10,737 net).

MR. R. H. HUDSON, 60 South Hill Road, Bromley, Kent (London area manager, Manesty Machines, Ltd.), left £9,099 (£6,357 net).

MR. H. HUGHSON, M.P.S., 417A Clifton Road, Woodside, Aberdeen, left personal estate in England and Scotland valued at £9,685.

MR. C. H. JAMES, M.P.S., 29 Promenade, Cheltenham, Glos, left £3,390 (£3,293 net).

MR. P. H. JONES, M.P.S., 78 Redston Road, Hornsey, London, N.8, left £3,199 (£2,803 net).

MR. V. J. KEY, M.P.S., 23 Rowfant Road, London, S.W.17, left £567 (£513 net).

MR. J. W. R. LAMB, M.P.S., The Hollies, Como Road, Great Malvern, Worcs, left £10,414 (£7,052 net).

MR. J. L. C. LEWIS, F.P.S., 13 Steep Hill, Streatham, London, S.W.16, left £2,270 (£2,221 net).

MR. L. LOMAX, M.P.S., 41 Church Terrace, Berry Brow, Huddersfield, left £10,135 (£10,023 net).

MR. A. MANSON, M.P.S., 26 John Street, Gourock, Renfrews, left £8,143.

DR. R. MAY, 28 Mount View, Mount Avenue, Ealing, London, W.5 (a former director, I.C.I., Ltd.), left £50,048 (£45,846 net).

MR. J. T. MEYNE, 232 Myton Road, Warwick, who qualified as a chemist and druggist in 1895, left £7,133 (£7,093 net).

MR. H. MEYNELL, M.P.S., 32 High Street, Tenterden, Kent, left £13,820 (£13,552 net).

MR. J. C. MURDOCH, M.P.S., 9 Stuart Avenue, Burnside, Rutherglen, Lanarks, left personal estate in England and Scotland valued at £9,262.

MR. J. R. L. NICHOLSON, M.P.S., 16 Grays Road, Stockton-on-Tees, Durham, left £1,428 (£1,390 net).

MR. A. POXON, 65 Birches Road, Codsall, Wolverhampton, who qualified as a chemist and druggist in 1899, left £2,066 (£2,015 net).

MR. R. REAVLEY, F.P.S., High Street, Burford, Oxon, left £6,883 (£6,117 net).

MR. J. ROBERTS, M.P.S., 173 New Chester Road, New Ferry, Birkenhead, Ches, left £5,693 (£5,510 net).

MR. J. G. ROBINSON, F.P.S., Will Spring, Mill Lane, Hythe, Kent, left £14,148 (£14,086 net).

MR. C. E. SAGE, F.P.S., 76 Twyford Avenue, Fortis Green, London, N.2, left £4,178 (£3,846 net).

MR. H. R. L. SALE, M.P.S., 21 Cambridge Road, New Malden, Surrey, left £1,767 (£1,707 net).

MR. T. L. SALTER, M.P.S., 138 Vine Lane, Hillingdon, Middlesex, left £22,196 (£22,118 net).

MR. D. P. SLATTERY, M.P.S.I., The Square, Castlepollard, co. Westmeath, left estate in England and the Republic of Ireland valued at £10,142.

MR. R. SPINK, M.P.S., 12 Hartley Avenue, Monkseaton, Northumberland, left £8,480 (£8,409 net).

MR. F. F. STAFFORD, M.P.S.I., The Bungalow, Beringham Road, Tuam, co. Galway, left estate in England and the Republic of Ireland valued at £24,750.

MR. W. J. TAYLOR, 4 Edensor Road, Eastbourne, Sussex, who qualified as a chemist and druggist in 1904, left £1,378 (£1,328 net).

MR. D. I. THOMAS, Alton House, Purberry Grove, Ewell, Surrey (sales director, Vitamins, Ltd.), left £19,557 (£16,207 net).

MR. T. WARRINGTON, M.P.S., 33 Belmont Road, Ilfracombe, Devon, left £13,876 (£12,995 net).

MR. R. L. WILSON, M.P.S., 12 Market Hill, Barnsley, Yorks, left £10,427 (£10,045 net).

MR. S. W. WOOLSTON, M.P.S., 87 Pontefract Lane, Leeds, left £6,785 (£5,668 net).

COMING EVENTS

Monday, January 16

HEREFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Green Dragon hotel, Hereford, at 7.45 p.m. Film "Antibiotics and Terramycin" followed by cosmetics lecture and demonstration by Max Factor Hollywood & London (Sales). Ltd.

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Unicorn hotel, Gidea Park, at 7.45 p.m. Mr. H. W. Tomski, B.Com., M.P.S., F.S.S., on "The Economics of Dispensing."

WIMBLEDON PHARMACISTS' ASSOCIATION, Crown hotel, Morden, at 8 p.m. Meeting.

Tuesday, January 17

BIRMINGHAM PHARMACEUTICAL ASSOCIATION, Imperial hotel, Birmingham, at 8 p.m. Mr. J. M. Leach (experimental medicine unit, Glaxo Laboratories, Ltd.) on "The Production of Vaccines from some Bacteria and Viruses." Illustrated talk.

CHELTEMHAM BRANCH, PHARMACEUTICAL SOCIETY, Gloucestershire Dairy café, Promenade, Cheltenham, at 7.45 p.m. Dr. P. W. Muggleton (experimental medicine unit, Glaxo Laboratories, Ltd.) on "The Production and Control of Vaccines."

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Swan hotel, Stratford, London, E.15, at 8 p.m. Members' exhibition of colour photography introduced by Mr. L. H. Moppett.

GLASGOW PHARMACY CLUB, The Rhul Restaurant, 123 Sauchiehall Street, Glasgow, at 7 p.m. Dinner and dance. Ticket 25s. from the social convenor, Mr. R. Anderson, 8 Main Street, Milngavie.

NORTH METROPOLITAN BRANCH, NATIONAL PHARMACEUTICAL UNION, Beale's restaurant, Holloway Road, London, N.7, at 7.45 p.m. Annual meeting, and Mr. J. McClenahan (N.P.U.) on "Queen Square—and You."

SCIENTIFIC FILMS ASSOCIATION, Mezzanine Cinema, Shell-Mex House, Strand, London, W.C.2, at 6.30 p.m. Mr. R. Ollerenshaw (department of medical illustration, Manchester Royal Infirmary) on "The Use and Abuse of Film in Medical Illustration."

SOUTH SHIELDS PHARMACISTS' ASSOCIATION, music room, Vigilant Inn, Harton, at 7.30 p.m. Assistants' meeting. Cosmetics lecture by a representative of Yardley & Co., Ltd.

WEST MIDDLESEX CHEMISTS' ASSOCIATION and BRANCH, Feathers hotel, Ealing Broadway, London, W.5, at 8 p.m. Film and lecture "The Chemotherapy of Tuberculosis with P.A.S." by Dr. Bradley (medical adviser, A. Wander, Ltd.), followed by members' meeting for formulation of Branch resolutions.

Wednesday, January 18

HOUSLOW BRANCH, PHARMACEUTICAL SOCIETY, Red Lion hotel, Houslow, at 8 p.m. Annual

dance. Ticket 7s. 6d. from Mr. S. G. Davis, 2 Almorah Road, Heston.

SCOTTISH DEPARTMENT, PHARMACEUTICAL SOCIETY, 36 York Place, Edinburgh, at 7.30 p.m. Mr. Walter Blyth, B.Sc., Ph.D., on "Fungal Infections Arising During Chemotherapy" (illustrated talk).

Thursday, January 19

CAMBRIDGE and HUNTINGDON BRANCH, PHARMACEUTICAL SOCIETY, The Dorothy café, Cambridge, at 7.30 p.m. New Year's party.

LEEDS BRANCH, NATIONAL PHARMACEUTICAL UNION, and LEEDS BRANCH, PHOTOGRAPHIC DEALERS' ASSOCIATION, Metropole hotel, King's Street, at 7.30 p.m. Mr. A. Aldington (president, P.D.A. and vice-chairman, N.P.U. Executive) on "Modern Photo Dealing and Colour Photography."

MANCHESTER and SALFORD BRANCH, PHARMACEUTICAL SOCIETY, Houldsworth hall, at 7.45 p.m. Discussion of Branch resolutions, Mr. J. B. Lloyd (chief pharmacist, Manchester Royal Infirmary) on "Modern Trends in Drug Therapy."

THAMES VALLEY PHARMACISTS' ASSOCIATION and WIMBLEDON BRANCH, PHARMACEUTICAL SOCIETY, Kingston hotel, Kingston, at 7.45 p.m. Debate.

THE CHEMICAL SOCIETY, large chemistry lecture theatre, Imperial college of science and technology, South Kensington, London, S.W.7, at 7.30 p.m. Tilden lecture: Dr. G. W. Kenner on "Recent Progress in the Chemistry of Peptides."

Friday, January 20

CHELSEA PHARMACY ASSOCIATION, Kensington town hall, at 7.30 p.m. Fourth annual ball. Ticket, 6s. 6d.; double 12s.

FINE CHEMICALS GROUP, SOCIETY OF CHEMICAL INDUSTRY, chemistry lecture theatre, King's College, Strand, London, W.C.2, at 7 p.m. Mr. E. Chadwick (British Industrial Solvents) on "Solvents in the Chemical Industry."

HERTFORD BRANCH, PHARMACEUTICAL SOCIETY, Cherry Tree ballroom, Welwyn Garden City, at 8 p.m. Inaugural dance. Ticket 12s. 6d. from Mr. P. H. Marriott, 24 Handside Lane, Welwyn Garden City.

HULL CHEMISTS' ASSOCIATION and BRANCH, Imperial hotel, Hull, at 8 p.m. Dr. G. B. Drummond, L.R.C.P., L.R.C.S. (Ed.) on "Doctor and Pharmacist."

SCOTTISH SECTION, SOCIETY FOR ANALYTICAL CHEMISTRY, 123 Sauchiehall Street, Glasgow, at 5 p.m. Annual meeting; at 7.30 p.m., film evening.

SOUTH-WESTERN BRANCH, INSTITUTE OF PACKAGING, Grand hotel, Bristol, at 6.30 p.m. Mr. G. H. Edwards (Unilever, Ltd.) on "Considerations in the Choice of a Package."

PRINT AND PUBLICITY

Advertising Campaigns

ALFRED FRANKS & BARTLETT CO., LTD., 226 Gray's Inn Road, London, W.C.1: Barte sunglasses. In large circulation national daily and Sunday newspapers and *Radio Times*.

F. W. HAMPSHIRE & CO., LTD., Sunnysdale, Derby: Loxene medicated shampoo. In *Daily Express*, *Daily Mirror*, *Daily Mail*, *Daily Herald*, *Daily Sketch*.

YEAST-PAC CO., LTD., 146 Cromwell Road, London, S.W.7: Yeast-pac. In *Everywoman*, *Modern Woman*, *She, Woman & Beauty*.

Commercial Television

THE following products are being advertised on commercial television (London station) on the days stated:—

SUNDAY, January 15: Zubes cough lozenges; Loxene medicated shampoo; Max Factor beauty preparations (between 8 and 9 p.m.); Brylcreem (between 8 and 9.30 p.m.); Kleenex tissue handkerchiefs (between 3 and 3.30 p.m.).

MONDAY, January 16: Carter's little liver pills (between 8 and 10 p.m.).

TUESDAY, January 17: Beecham's powders; Philshave dry shaver (between 8 and 10 p.m.).

FRIDAY, January 20: Anadin; Beecham's pills (between 10 and 11 p.m.); Lux toilet soap; Kleenex tissue handkerchiefs (between 8 and 10 p.m.).

SATURDAY, January 21: Silvikrin shampoo; Alka-Seltzer (between 10 and 10.30 p.m.); Lloyd's adrenaline cream (between 2 and 6 p.m.); Max Factor beauty preparations (between 8.30 and 9.30 p.m.); Brylcreem (between 9.30 and 11 p.m.).

Display Material

ALFRED FRANKS & BARTLETT CO., LTD., 226 Gray's Inn Road, London, W.C.1: Barte sunglasses. Showcards and colour display material available.

ASPRO, LTD., Slough, Bucks: Aspro window and door "stickers," counter, till and shelf display cartons.

BIOMETICA, LTD., Park Road, Barnet, Herts: Pinaud counter display box for pommade Hongroise.

PERHEL, LTD., 27 Rabbit Row, London, W.8: Actinea sun lamps, Window material.

SOUTHON LABORATORIES, LTD., 84 Upper Richmond Road, London, S.W.15: Two-colour counter showcard for E.P. tablets.

Price Lists

J. ALLEN RUBBER CO., LTD., Whitecroft, Lydney, Glos: Trade, Leaflet.

AYRTON, SAUNDERS & CO., LTD., 34 Hanover Street, Liverpool: Packed Goods, Tablets, Bottles, Fancy Goods, Sundries, 1956, Pp. 108.

BAYER PRODUCTS, LTD., Neville House, Eden Street, Kingston-on-Thames, Surrey: January 1956, Pp. 24.

THE DISTILLERS CO. (BIOCHEMICALS), LTD., Fleming Road, Speke, Liverpool, 19: Pharmaceutical Products, 1955-56, Pp. 6.

DUNCAN, FLOCKHART & CO., LTD., 104 Holyrood Road, Edinburgh, 8: Specialities, Pp. 6.

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, 19: Druggists' Sundries, Pp. 90.

GEIGY PHARMACEUTICAL CO., LTD., Rhodes Middleton, Manchester: December 1955, Pp. 8.

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *Tax 30 per cent.; †Tax 90 per cent.

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD. (from January 4)
Avlocor tablets 0.25 gm.

	I.R.P.	
10	2 6 R	
100	22 0 R	
500	96 0 R	

merchant shipping packs:—

100	22 0 R
250	51 2 R

INTERNATIONAL FOOT APPLIANCES, LTD. (from January 1)

	Doz.	
Omnipod foot cushions	71 5	8 6 A
renewal bandages	16 10	2 0 A

The price of Omnipod bunion cushions is unchanged.

MEGGESON & CO., LTD.
Meggezons* 11 8 R 1 8
(N.B. The retail price is unchanged).

PERSOMNIA, LTD. (from January 16)
Persomnia tablets* 16 19 2 2 9 A
36 38 4 5 6 A
100 93 4 13 6 A
250 204 0 A

RIKER LABORATORIES, LTD. (from January 16)
Serpiloid tablets Each
0.25 mgm. 100 8 6 12 9 R
1,000 68 0 102 0 R
0.5 mgm. 100 16 6 24 9 R
1,000 132 0 198 0 R
1 mgm. 100 28 0 42 0 R
1,000 224 0 336 0 R
3 mgm. 100 63 0 94 6 R
5 mgm. 100 98 0 147 0 R

ROUSSEL LABORATORIES, LTD. (from January 9)
Glosso-Sterandryl
5 mgm. 25 4 10 7 3 R
100 14 10 22 3 R
500 70 6 105 9 R
1,000 138 8 208 0 R
10 mgm. 25 8 0 12 0 R
100 28 0 42 0 R
500 136 0 204 0 R
1,000 270 0 405 0 R
25 mgm. 25 17 4 26 0 R
100 66 0 99 0 R
500 326 0 489 0 R
1,000 650 8 976 0 R
50 mgm. 25 32 6 48 9 R
100 126 0 189 0 R
500 626 8 940 0 R
1,000 1252 0 1878 0 R

Methandiol 10 mgm. 25 7 2 10 9 R
100 24 8 37 0 R
500 119 2 178 9 R
1,000 236 4 354 6 R
25 mgm. 25 15 6 23 3 R
100 59 0 88 6 R
500 290 8 436 0 R
1,000 580 0 870 0 R

Sterandryl 10 mgm. 6 5 10 8 9 R
12 10 8 16 0 R
25 21 6 32 3 R
50 40 0 60 0 R
25 mgm. 6 10 0 15 0 R
12 19 0 28 6 R
25 39 0 58 6 R
50 75 0 112 6 R

50 mgm.	6	16 0	24 0 R
	12	31 0	46 6 R
	25	64 0	96 0 R
	50	124 8	187 0 R
100 mgm.	6	28 0	42 0 R
	25	114 0	171 0 R
	50	224 8	337 0 R
500 mgm. in 10 c.c.	22	6	33 9 R

YEAST-PAC CO., LTD. (post-Budget prices)

	Gross	
Acne treatment*	56 0	9 4 A
Beauty mask†	1 58 0	1 0 A
	3 120 0	2 0 A
	7 240 0	4 0 A

NEW PRODUCTS AND PACKS

ALFRED FRANKS & BARTLETT CO., LTD.
Sunglass display stand Each
complete 284 0

Bartex sunglasses MP 22 10 6
MP 23 13 6

GLAXO LABORATORIES, LTD.
Triptolop single-dose vial 2 1 3 1½
pack of ten 20 10 31 3

LLOYD-HAMOL, LTD.
Syl cream* tube 2 6 4 3
500-gm. jar 16 8

PIFCO, LTD.
Pifco Sunmaster 357 0

WILLIAM R. WARNER & CO., LTD.
Doz.
Veganin tablets* 45 6 6 3

P.A.T.A. PROTECTED LIST
(Alterations notified this week by the Proprietary Articles Trade Association.)

W. H. BOX		
Box's giant indigestion pills*	11 3	1 7 A
	26 3	3 8 A
	42 4½	6 0 A

CULMAK, LTD. (from January 2)
Culmak shaving brushes*
Junior 33 4 5 0 A
Chum 50 0 7 6 A
Traveller 50 0 7 6 A
Senior 66 8 10 0 A

SOLPORT BROS., LTD.
Portia baby balance* 46 0 7 0 A

DELETIONS FROM PROTECTED LIST

SHURZINE PHARMACY, LTD.
Shurzine ointment

C. & D. RETAIL AND DISPENSING PRICE LIST

The drug index for December was 199

Cost		Item	4 oz.		1 oz.		1 dr.	
d.	per		s.	d.	s.	d.	s.	d.
50	100 gm.	Ammon. tartas ...	—	2 0	0	3½		
204	500 gm.	Buchu ...	6 6	2 0	0	3½		
75	250 gm.	Calx sulphurata, B.P.C. '49 ...	4 10	1 4	0	2½		
65	25 gm.	Cardamomi sem. pulv. ...	—	—	1	9		
66	500 gm.	Cremor zinc. ox. et ol. ricini, B.P.C. ...	2 2	0 8	0	2		
22	25 mls	Creosotum ...	—	3 8	0	7		
159	100 mls	Ext. senegae liquidum ...	—	6 5	0	11		
66	100 gm.	Lavand. flor. exot. ...	—	2 9	0	5		
186	500 mls	Lin. methyl. salicylatis co., B.P.C. '34						
		P.I (12)	6 0	1 9	0	3		
129	500 gm.	Magnes. oxid. pond. ...	4 2	1 2	0	2		
44	100 gm.	Myristica pulv. ...	—	1 10	0	3		
228	gall.	Ol. arachis ... 2s. 10d. (16 fl. oz.)	0 11	0 3	—			
48	2 gm.	Papaverina, B.P.C. ...	—	—	0	4		
28	500 gm.	Paraffinum durum ...	3 2	0 11	0	3		
90	100 mls	Safrol ...	—	3 8	0	7		
105	100 gm.	Thymol ...	—	4 3	0	8		
114	500 mls	Tinct. arnicae florum ...	3 8	1 0	0	2		
144	500 mls	Tinct. asafetidae ...	4 8	1 4	0	2½		
120	500 mls	Tinct. cinchonae, B.P.C. '49 ...	4 0	1 1	0	2		
90	500 gm.	Ung. eucalypti ...	2 11	0 10	0	2		
82	kilo	Ung. zinci oxid. ...	1 4	0 5	—			

The bold letters and figures at left of dispensing price relate to the classification of poisons in THE CHEMIST AND DRUGGIST Poisons Guide.

now freely available:

'Aerosporin'

SPECIFIC AGAINST MANY
GRAM-NEGATIVE ORGANISMS

'Aerosporin' brand Polymyxin B Sulphate is an antibiotic pre-eminent against *Pseudomonas pyocyanea* and is strongly and quickly lethal to many other gram-negative organisms. Used locally, it encourages healing of wounds or burns and facilitates skin-grafting. Intrathecally, it is given in the treatment of meningitis caused by certain gram-negative species. In systemic or urinary infections it is injected intramuscularly. In otitis externa and chronic otitis media due to *Ps. pyocyanea*, 'Aerosporin' is specific and should be administered as 'Aerosporin' Otic Solution. 'Polyfax', an ointment combining bacitracin with polymyxin B sulphate, is also available; lethal to both gram-positive and gram-negative organisms, it carries minimal risk of sensitisation.

'Aerosporin'

BRAND
POLYMYXIN B SULPHATE

Rubber-capped bottles containing
0.5 mega units (500,000 units)

'Aerosporin'

BRAND
CREAM BASE

Screw-capped pots containing 45 gm.
and 225 gm.

'Aerosporin'

BRAND
OTIC SOLUTION

Bottles of 10 c.c. with dropper

'Polyfax' OINTMENT

BRAND
Tubes of 20 gm. for topical application

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'POLYFAX' brand Ophthalmic Ointment

Tubes of 4 gm. with special nozzle



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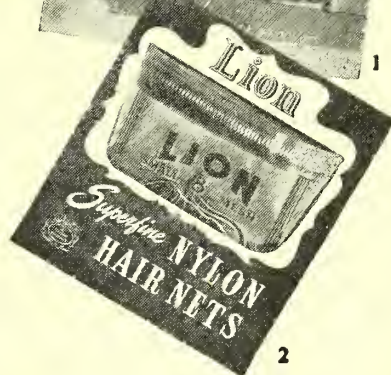
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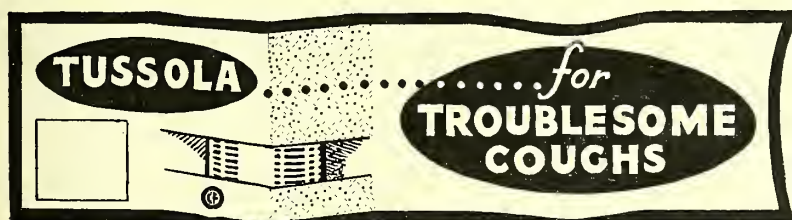


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4 oz. ...	17/-	5/1½	2/7
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BONUS—Orders of 1 dozen—1 bottle
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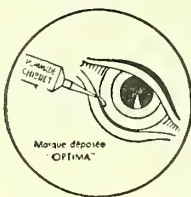
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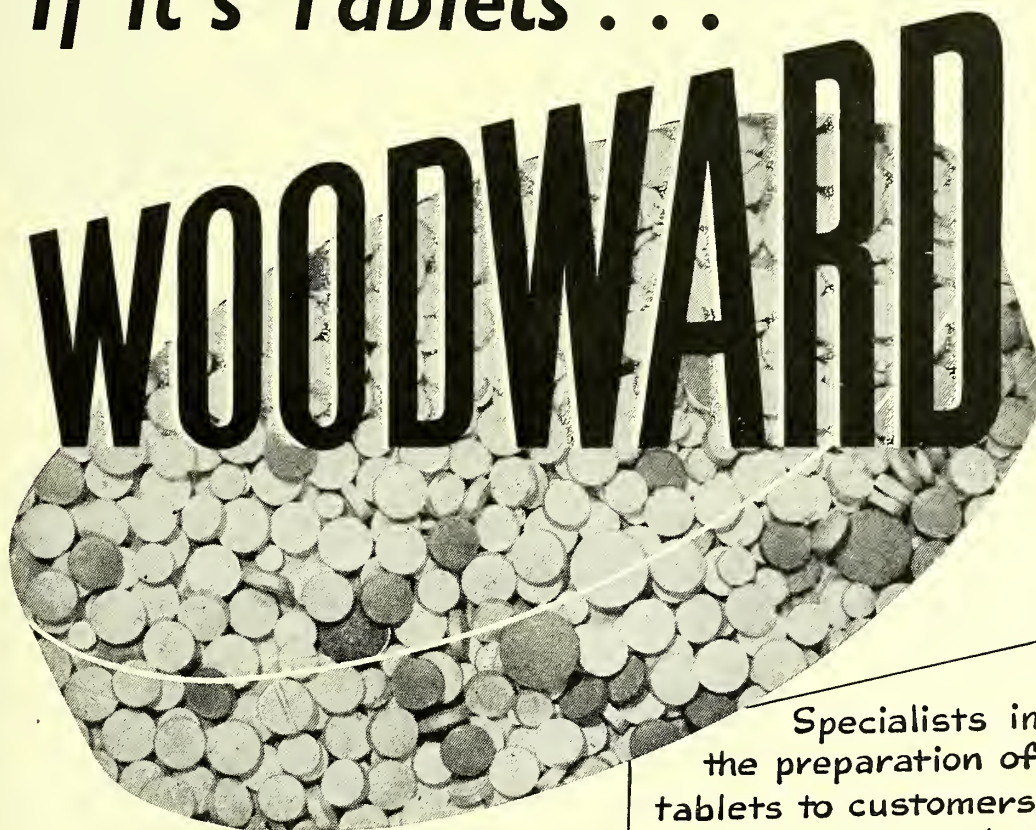


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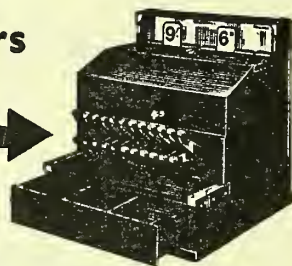
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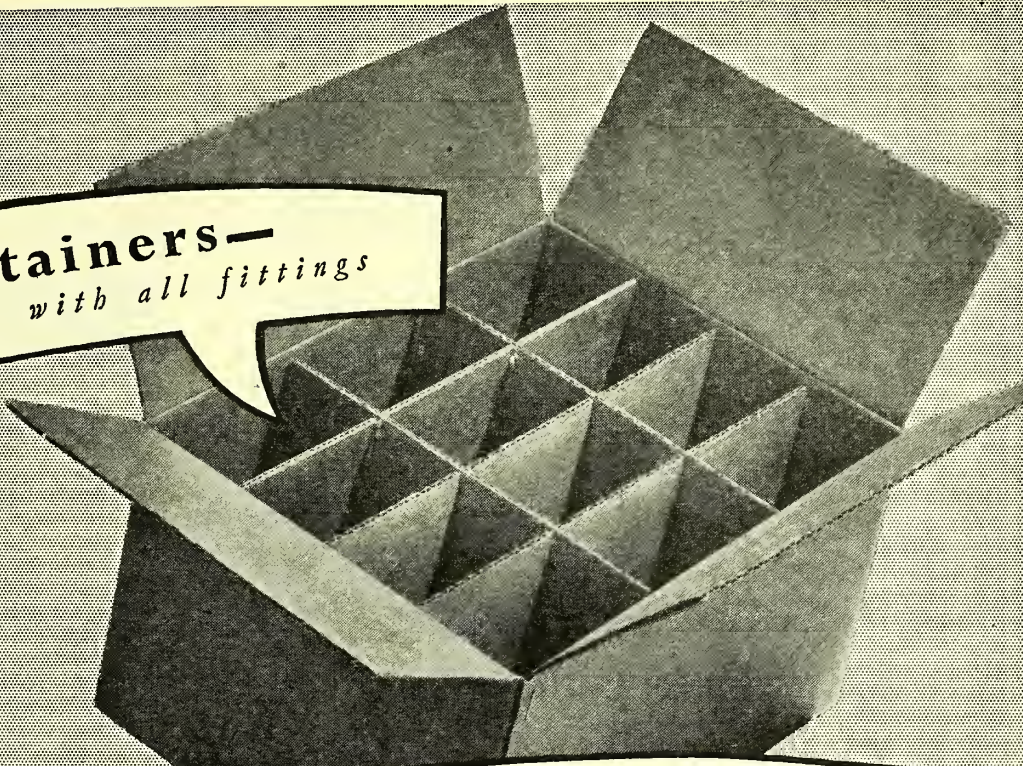
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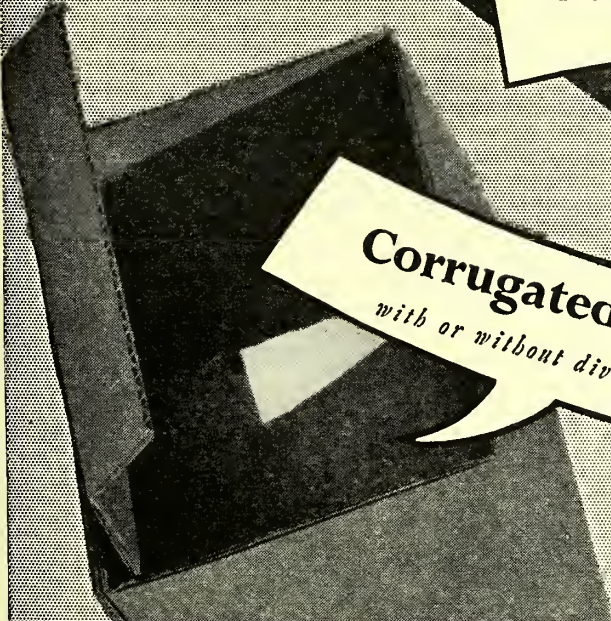
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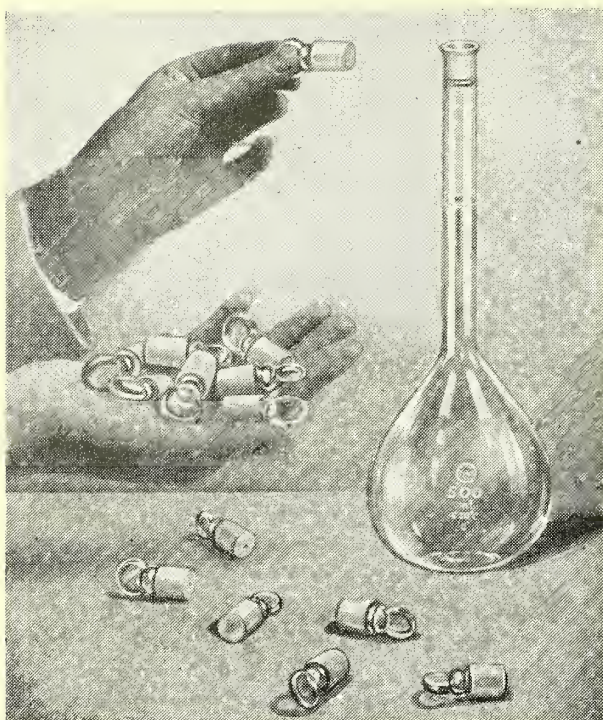


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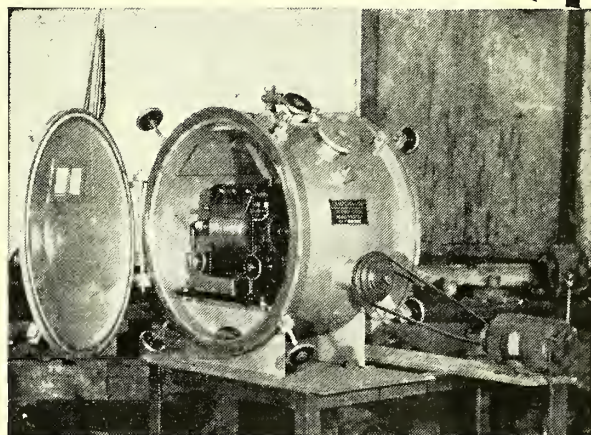
Mitchell

PILOT-SCALE & LABORATORY EQUIPMENT

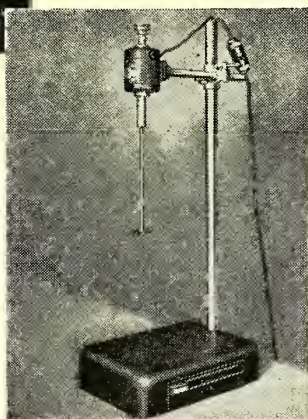
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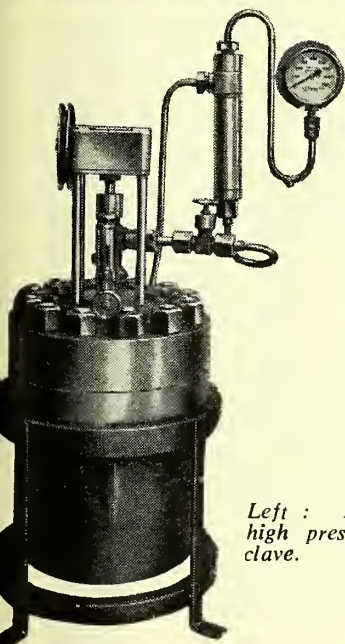
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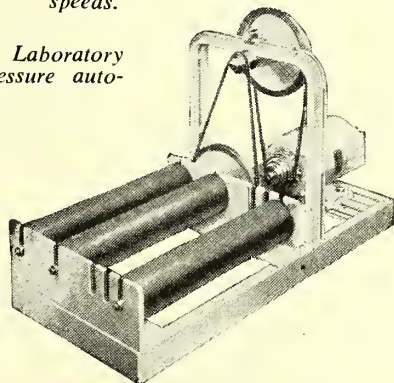
Above: Film drum dryer for drying liquids, suspensions and colloidal products which are difficult to filter. Supplied for atmospheric or vacuum operation.



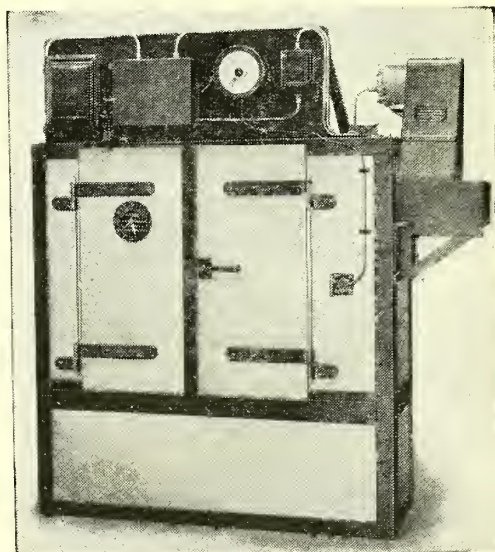
1/60th h.p. Mitchell laboratory fluid mixer for carrying out small scale mixing operations at a wide range of speeds.



Left: Laboratory high pressure autoclave.



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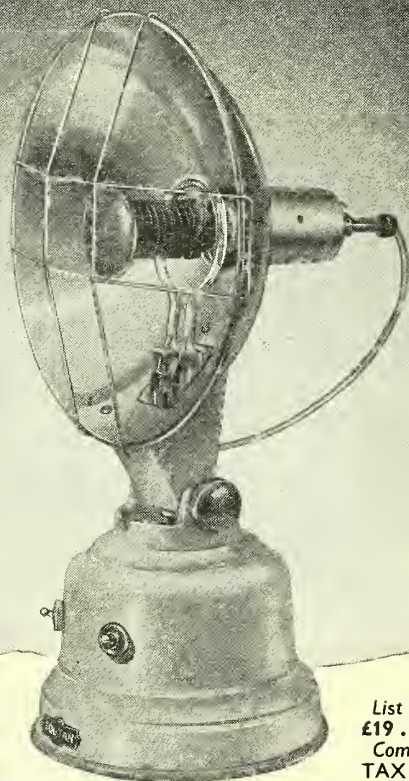
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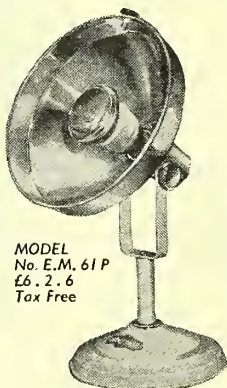
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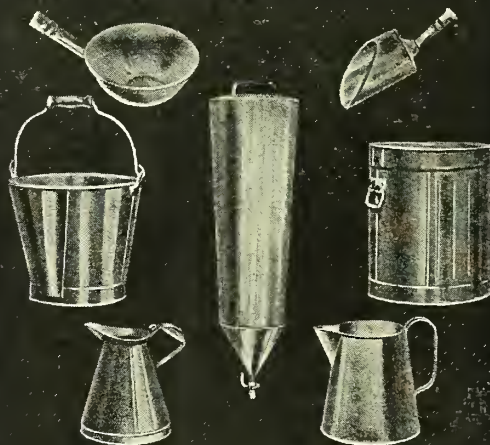
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If it's combs,
sunglasses,
fancy goods...



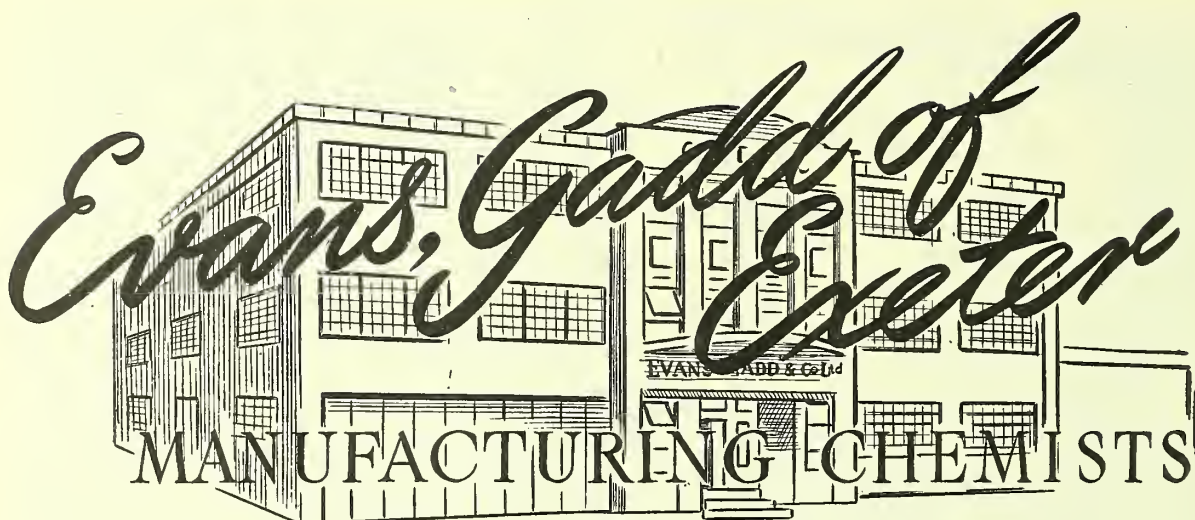
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per tin

Supplied in Display Cartons

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It was a constituent of the lotion recommended to oil workers by the Home Office,² and is incorporated in barrier creams³ and powders for the treatment of wet dermatitis.⁴ Properly applied, boric acid will continue to maintain the high place it has held in therapeutics and cosmetic manufacture for many years.



1. Pott, J. H., "*Observationum et animadversionum chymicarum*," Berolini, 1741.
2. Factory Dept., Home Office. "*Prevention of Oil Rashes*," Form 296, Feb. 1932.
3. Peel, N. S., "*Survey of Barrier Creams*," *Soap, Perfumery & Cosmetics*, Feb. 1953, 26, 155.
4. Anon., *Pharm. J.*, 30th April 1955, 174, 341.

20 MULE TEAM

BORAX AND BORIC ACID

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BORAX HOUSE • CARLISLE PLACE • LONDON • S.W.1

VICTORIA 9070



Syrup Pholcodine

a better cough suppressant than codeine.



The administration of codeine for suppression of a distressing cough is accompanied by nausea and constipation as side-effects. In the last year pholcodine has become well-known for being both a *stronger* suppressant than codeine and one that does *not* cause nausea or constipation.

Rx Syr. Pholcodine (Duncan)

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MEDICINAL SNUFF

the *proved* remedy
for colds and catarrh

*Your wholesaler can supply you
promptly. Orders of one dozen
come in attractive counter
display box for*

MORE SALES — MORE PROFIT

KEMSALES LTD., 20 EASTCHEAP, LONDON, E.C.3

A Source of New Business

NERVONE

REGD.

Builds Up Nerve Power

**There is an unlimited demand
for this new Biochemic Tablet.
Show it — it Sells on Sight!**

PATA

NEW ERA LABORATORIES LTD
Cecil House, Holborn Viaduct, London

Goodness! what a good idea

Now available from all **Sunfresh** suppliers
the NEW triple-strength GLUCOSE DRINK
with triple-strength sales appeal!

1 CITROZE is cheaper — it's concentrated in triple-strength! For her 3/6 your customer gets the equivalent of no less than 4 pints of ready-to-drink Citroze.

2 CITROZE is better. It contains purest energy-giving glucose — is made with whole fresh lemons — can be drunk hot or cold.

3 CITROZE will be better known. Watch for powerful advertising, customer compelling advertisements and posters. There will be effective display material, too!

and above all



Citroze means bigger profits for you

You make 8/6 on purchases of one dozen! Even more with quantity buying. Get your discounts by combining orders for Sunfresh and Citroze.

It's another wonderful product from the Sunfresh people — the new lemon-flavoured Glucose drink CITROZE. It retails at 3/6. Watch for CITROZE — and stock up! From usual suppliers, wholesalers or write/telephone — O. R. Groves Ltd. — (proprietors of Sunfresh) — 20 Jermyn Street, London, S.W.1. REGent 7986.

CITROZE

(TRADE MARK)

the NEW triple-strength GLUCOSE DRINK
made with whole fresh lemons

Goodness! how you'll sell it

made by the **Sunfresh** people





WE WANT

**MILLAMALT**

BECAUSE OF THE BUTTERSCOTCH FLAVOUR

Sole Manufacturers: JEFFREYS, MILLER & CO. LTD., Leyland Mills, Wigan. (London Dept: 19 Brookside Rd. N.)



For Rheumatism, Lumbago and Fibrositis

2 oz. jars (2/-)	11/8 plus P.T.	per doz.
1 oz. tubes (1/5)	7/9 plus P.T.	

Manufactured by

BROOK, PARKER & CO. LTD., BRADFORD, ENGLAND

PIGLET ANÆMIA TABLETS

Containing 0.5 g.
reduced iron with
copper and cobalt.
Bottles of 30 and
100. Retail 3/-
and 6/-.

Nationally advertised in farming journals

USUAL TRADE TERMS FOR CHEMISTS ONLY

HODGES & MOSS LTD

6 CASTLE GATES · SHREWSBURY



THE MANUFACTURING & WHOLESALE CHEMISTS

who can be relied on for

REGULAR ROAD DELIVERIES

in the West of England and S. Wales areas

Telephone : Bristol 24381

**& CO LTD
BRISTOL**

Telegrams : 'Ferris, Bristol'

HAVE YOU GOT YOUR COPY OF:

This book incorporates Rouse's Synonyms
and contains over 7,000 Synonymous terms.

It is a most useful book of reference.

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Dictionary of Synonyms?*

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BURNSIDE'S EUCALYPTUS OILS

Distilled in Australia from Eucalyptus leaves in accordance with the B.P.
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80/85% Rectified B.P. Eucalyptol B.P. 70/75% Rectified B.P.

Oil Eucalyptus Dives 40/45% Oil Eucalyptus Dives 90/95%

For the production of Thymol and Menthol

Oil Eucalyptus Phellandra—Phellandrene

For use in Antiseptics and Disinfectants

Agents for U.K.: **WILSON & MANSFIELD, LTD., 15 Philpot Lane, LONDON, E.C.3**

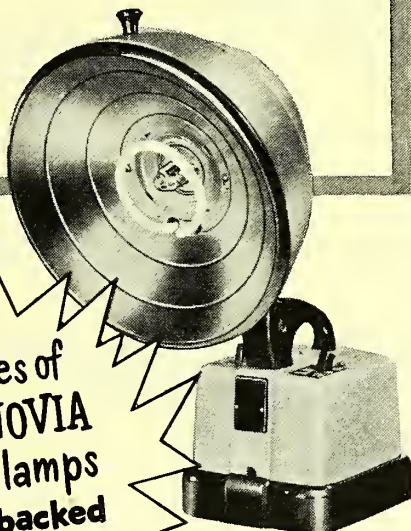
Phone : MANSION HOUSE 9264-5-6

(WHOLESALE ONLY)

Grams : WYFIELD, LONDON

Because they
can't afford
to be ill...

thousands of people will be buying Hanovia prescription lamps this Winter. Hanovia lamps are widely used in hospitals and recommended by doctors. They are sold free of purchase tax on medical certificate and are made by the world's leading specialists in ultra-violet equipment.



Sales of
HANOVIA
Sun-lamps
are backed
by

- ★ NATIONAL PRESS ADVERTISING
- ★ WEEKLY RADIO LUXEMBOURG PROGRAMMES
- ★ GOOD DEALER SERVICE including sales aids and window displays.
- ★ GENEROUS DEALER DISCOUNTS

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Write to:

Hanovia SLOUGH · BUCKS

Specialists in ultra-violet ray equipment for all applications.

TGA P75



By Appointment to H.M. The Queen, Chemists

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VERTEBRÆ!

... the facility of buying Savory & Moore high quality Pharmaceutical Products locally is not without its attractions to "more discerning" customers who form the backbone of your goodwill.

Bonus of one to the dozen. Free
Van Delivery in Home Counties.



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Women today,
more than ever before,
are believing that . . .

. . . IF IT'S

Evan Williams

IT'S GOOD
FOR THE HAIR!



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BRILLANTINE · WAVE SET ·

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· 'NEW LOOK' HAIR CONDITIONING CREAM

ATTENTION CHEMISTS!
you make 33 $\frac{1}{3}$ % profit

on **ODEDENT**
Regd.

DENTURE CLEANSER

Here's a sales opportunity you can't ignore: in support of liquid ODEDENT, the amazing 1 minute denture cleanser . . . widely acclaimed by dentists and enthusiastic denture wearers alike, as *outstandingly effective* . . . ! Soaking is banished: just a drop of ODEDENT on a brush or cotton wool—a brisk wipe, and the result is . . . sparkling clean dentures.

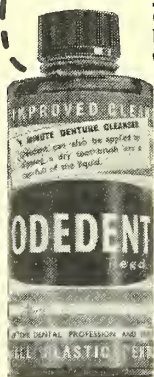
ODEDENT is nationally advertised in the RADIO TIMES and the DAILY EXPRESS—attractive, *selling* advertisements which tell the public—your customers—the wonderful ODEDENT story.

ODEDENT costs 11/6 per dozen, small size—retailing at 1/9 per bottle. Large size, 18/- per dozen—retailing at 2/8 $\frac{1}{2}$ per bottle.

REMEMBER! ODEDENT gives YOU a profit of 33 $\frac{1}{3}$ % on ALL sales.

ORDER FROM YOUR USUAL
WHOLESALEMAN NOW!

The ODEDENT Co., Walton-on-Thames, Surrey



A market that never "dries up!"

MAKE SURE YOUR STOCKS ARE SUFFICIENT TO MEET THE INCREASING DEMAND

CONSISTENT advertising, backing a product approved by members of the Medical and Nursing professions, and needed by Mothers everywhere, has made FEEDRITE Feeding Bottles and Teats a necessity.

Obtainable only from your wholesaler.

- Complete FEEDRITE BABY FEEDER OUTFIT
- FEEDRITE SPARE BOTTLES
- FEEDRITE SPARE THERMAL HEAT RETAINING PAD SETS
- FEEDRITE ANTI-COLIC TEATS *Cherry or Straight*
- FEEDRITE RUBBER BOTTLE STOPPERS
- FEEDRITE FOOD AND BATH THERMOMETERS

Write today for attractive show material and Explanatory leaflets

FEEDRITE LTD.

300 Kingston Road, Merton Park, London, S.W.20 Tel: Liberty 3443

**FINE CHEMICALS
AND DRUGS**

The following are a selection from the large range of fine chemicals and drugs we supply:—

ADRENALINE	PAPAIN
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CARMINE	PHENAZONE
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ESSENTIAL OILS

ANISEED, BAY, CAJUPUT,
JUNIPER, PEPPERMINT,
Etc., Etc.

**DEGA BRAND
SPECIALITIES**

TERPENELESS OILS, PER-
FUME CONCENTRATES.
(We manufacture a wide range
of floral and speciality type
bouquets for all classes of
trade.)

**MEDICAL AND
VETERINARY
SPECIALITIES**

“KADAMYSIN” (In boxes of 10 x ml. ampoules)
for bronchial asthma.

“DEGALAN” Ointment and Suppositories (Boxes
of 10) for hæmorrhoids.

“CHINOSOL” Brand Antiseptic in powder and
tablet form.

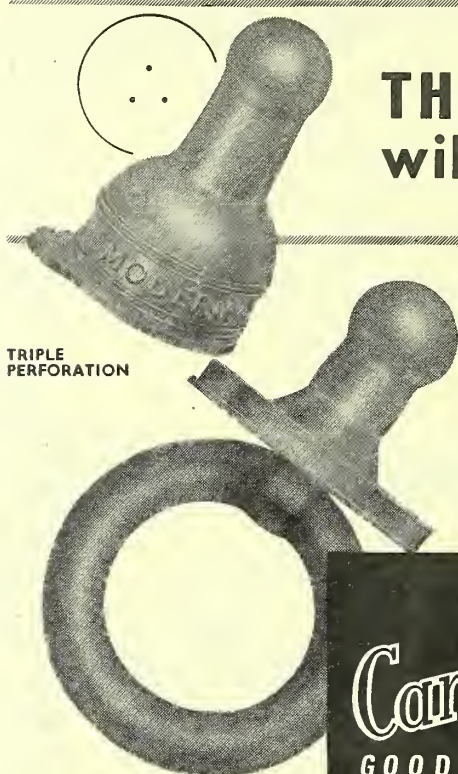
“DEVATOL-A” Tablets—an invigorator and tonic
for all domestic animals.

CHAS. ZIMMERMANN & CO. LTD.

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Telegrams: Acidolan, Greenford



THESE FAST SELLERS will increase your profits

THE 'MODERN' TEAT & 'MODERN' SOOTHER

With their triple perforation and spiral reinforcement, Modern Teats are preferred by mothers because they diffuse the food freely without buckling or collapsing. Flow is uninterrupted and nearest to natural feeding. Not affected by boiling. Available in three flow sizes:—

Small — Medium — Large
(Blue Label) (Green Label) (Red Label)

Selling Price 7½d. each.

Modern Soothers are always reliable and provide maximum comfort to babies. Available with transparent or coloured rubber rings.

Selling Price 1/3 each.
Modern Junior Soothers 1/- each.

Modern Teats and Soothers are individually packed in cardboard shell and transparent film.

Write to-day to your wholesaler for full details.

Cannon Rubber
PRODUCTS
GOODS OF FINE QUALITY



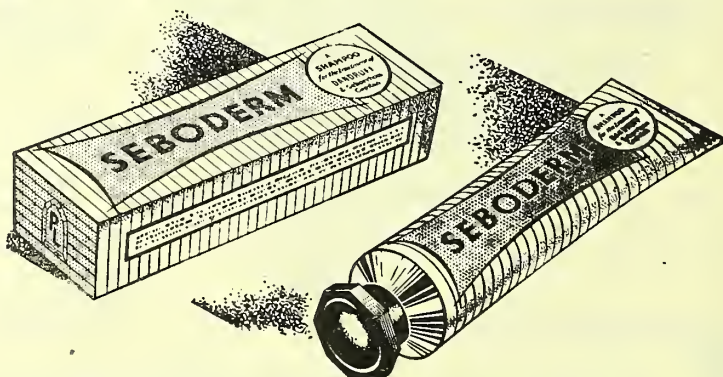
THE CANNON RUBBER MANUFACTURERS LTD., ASHLEY ROAD, TOTTENHAM, LONDON, N.17

The treatment for Dandruff and Seborrhoeic Dermatitis..

SEBODERM

CETRIMIDE
CREAM SHAMPOO

- ★ Prepared specifically for care of the scalp and hair.
- ★ Most effective in treatment of simple Dandruff and Seborrhoeic Dermatitis.
- ★ The Shampoo is pleasant to use.



SEBODERM in 3-oz. tubes, Retail Price
2s. 4d. each inc. P. Tax.

To PHARMACISTS—33½ per cent.
PLUS bonus 1 free tube per dozen.

PRIORY LABORATORIES LTD., Pyramid Works, West Drayton, Middlesex



BEECHAM'S POWDERS *Advertising*

is reaching millions every week

This is the biggest year ever for Beecham's Powders advertising. Half-pages in national newspapers and forceful, dominant ads. in the provincials and the big-circulation magazines. Hard-hitting sales messages on radio, films and television. Never before has your profit-potential for Beecham's Powders been as great as it is today—if you have the stocks, if you display them



★ Use the new attractive display-aids to clinch your sales!

Make the most of the eye-catching display matter available. Free on request. Check stocks *now* and order more. That way you'll be helping yourself—to a bigger turnover and bigger profits.

This ½ Page is appearing in National Daily Newspapers.



WHY FLU CAN COME SO SUDDENLY

Exposure to infection viruses can mean flu or a feverish cold for you today. The incubation period is but a few hours. Infection can take hold of you so rapidly that only the most immediate measures are really effective. Quick action is absolutely essential in a remedy for flu. Because of their fine powder form, and because of their unique formula, Beecham's Powders can ensure remarkable results.

Here are your symptoms:
SNEEZING - SHIVERING
RUNNING EYES and NOSE
FEBRILE TEMPERATURE
MUSCULAR PAINS
SORE THROAT
HEADACHE

Cartons of 8 Powders 1/9
2 Powders for 5jd
Also available in tablet form
1/9 per bottle

Now take a BEECHAM'S POWDER

It is most important to you that Beecham's Powders are prepared in fine powder form. It is because of this that Beecham's Powders are quickly assimilated and speedy in action. But what is of even greater importance is the unique formula of Beecham's Powders—which reduce temperature and bring under control the worst symptoms of Colds, Feverish Chills and Flu.

With Beecham's Powders there is no risk of irritation to the sensitive stomach and therefore no risk of stomach upset, which is possible with many tablets. So, be wise! Immediately you feel the first symptoms—sneezing, running eyes, aching head, stuffy nose, or hot-and-cold shivers—take a Beecham's Powder and have the benefit at once. Millions of people enjoy the great advantages of Beecham's Powders today—and so could you. Get a supply of Beecham's Powders NOW—and always keep some handy.

You can rely on **BEECHAM'S POWDERS** For QUICK RELIEF!

★ Orders and enquiries to:
BEECHAM PHARMACEUTICALS LTD.
ST. HELENS, LANCASHIRE

Display-and you'll sell

JOHN BELL'S



COLD CAPSULES

For Influenza, Feverish Chills and Colds



BONUS TERMS AND DISPLAYS

13 to the dozen for orders of 3 dozen or more, plus attractive display material that creates impulse sales.

Retail price 1/10² (incl. Tax) per tin.

Trade 11/6 per dozen (P. Tax 3/5¹/₂).

JOHN BELL, HILLS & LUCAS LTD., OXFORD WORKS, WORSLEY BRIDGE ROAD, LONDON, S.E.26

IT IS NOT A MATTER OF LUCK!

Printing is a matter of choosing
the right printer
for the right job.

**THE CHEMISTS'
PRINTING FIRM**

*who knows exactly your
requirements!*

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Carton, Medical and Advertising Printers
BURLEY ROAD, LEEDS, 4

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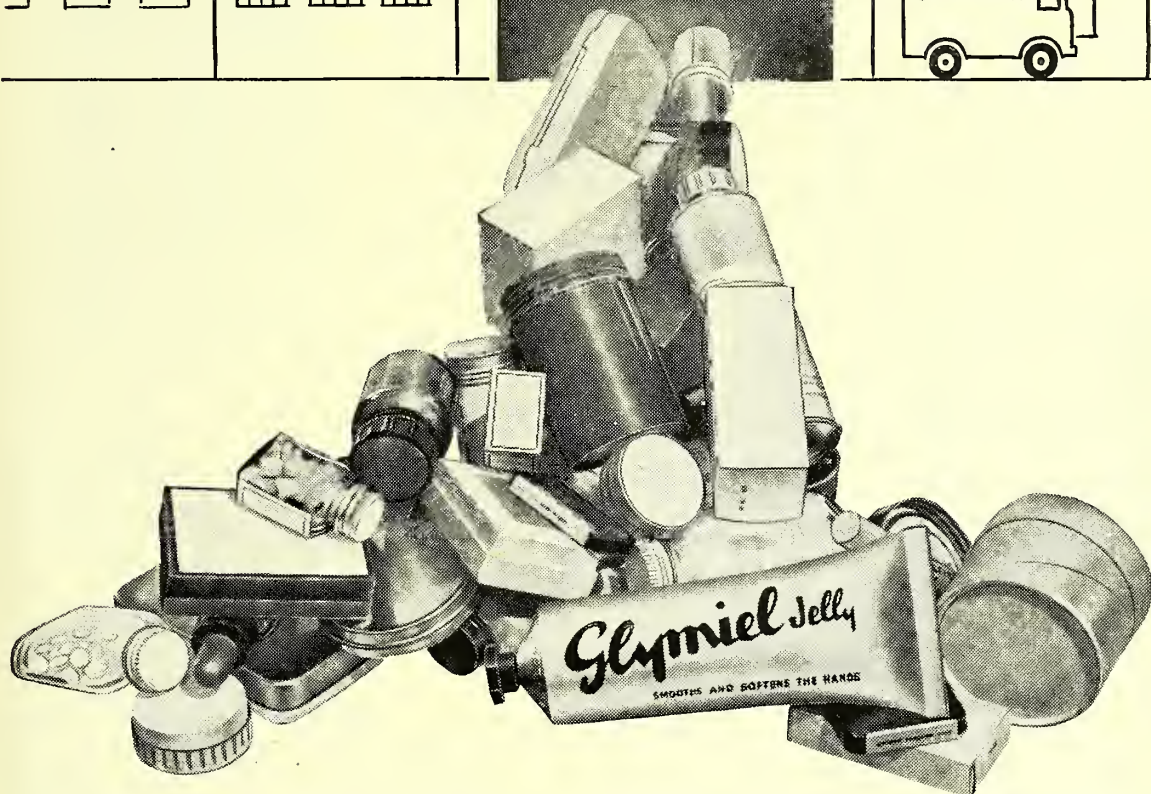
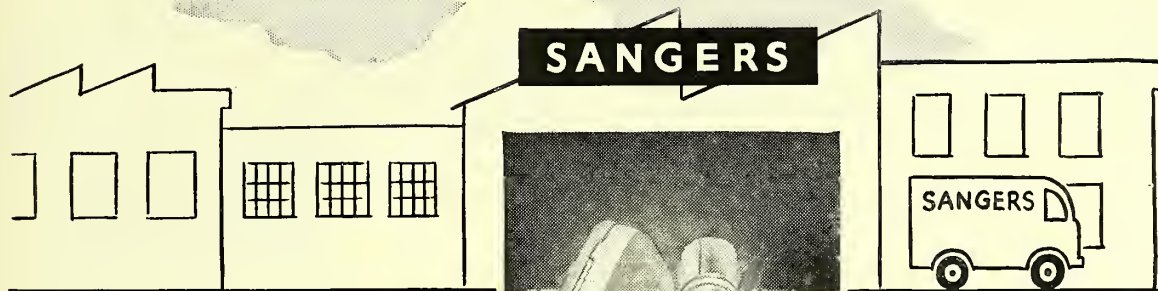
ALOES PAPAIN BUCHU

**and all other Botanicals, Gums,
Waxes, Essential Oils and Spices**

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Whatever your needs there's Sangers service

Sangers carry the most comprehensive stocks in the country — Sangers speedy van service covers every district — whatever your problem, whether your order is large or small, you will save time and trouble when you call on Sangers to help you.

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*NOW... the full range of
MAW'S TOWELS pre-packed
in one self-service unit...*

PRESENTATION In the tradition of Maw's discreet and dignified point-of-sales displays which have yielded 200% INCREASE IN SALES OVER THE LAST 2 YEARS!

PUBLICITY A delicate reminder even to the most self-conscious customer . . . PROMPTING REPEAT SALES.

PROFITS Full margin now increased by COMPREHENSIVE PARCEL DISCOUNTS TO 44% ON COST.



Ask Maw's man for full details

Chemists only

Contains a comprehensive assortment of Maw's All Wool and Soluble towels. This pre-packed unit counts as one case for discount . . . MERCHANDISER FREE.

S Maw Son and Sons Limited • Barnet • England

ONE OF THE NEW
"WHITECROSS"
SALES CABINETS

Supplies restricted
to wholesalers only
to whom please
send your orders



WHITECROSS OPTICAL COMPANY (LONDON) LTD.

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antipeol *products of proved efficiency*



Their success is due to the incorporation into a proved healing ointment base, of the anti-virus filtrates of the microbes common to most cutaneous, naso-pharyngeal and ocular complaints.

● **Indications :**

Immediate efficacy in the treatment of BURNS and SCALDS. Invariably averts surgical intervention in the case of BOILS, whilst ABSCESSSES, ECZEMA, CARBUNCLES, VARICOSE ULCERS, HAEMORRHOIDS and certain types of DERMATITIS are equally responsive.

ANTIPEOL CUTANEOUS OINTMENT

● **Indications :**

ASTHMA, BRONCHITIS, CATARRH, CORYZA, RHINITIS and many other infections of the naso-pharynx.

RHINO-ANTIPEOL PROPHYLACTIC NASAL CREAM

● **Indications :**

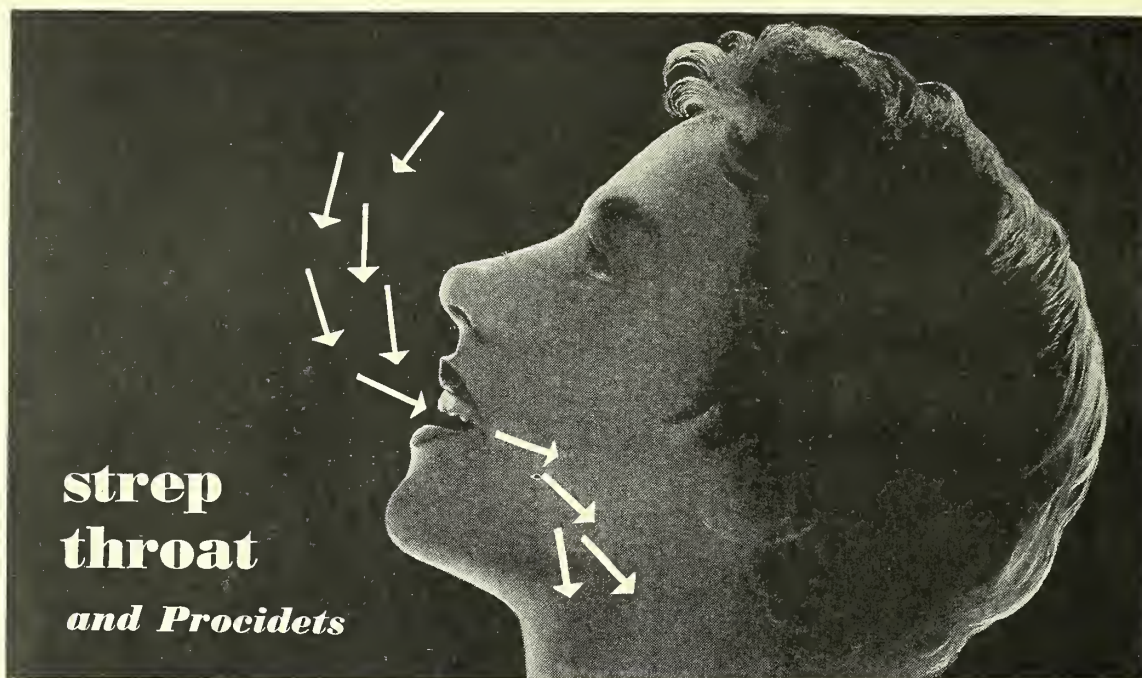
BLEPHARITIS, CONJUNCTIVITIS, DACRIOCYSTITIS, KERATITIS and other inflammatory conditions of the eye.

OPHTHALMO-ANTIPEOL THERAPEUTIC OPHTHALMIC OINTMENT

AMONG the Medical and Nursing Profession and The First Aid Associations, the ANTIPEOL preparations enjoy a continued and growing popularity. ANTIPEOL Cutaneous Vaccine OINTMENT and its associated products RHINO-ANTIPEOL and OPTHALMO-ANTIPEOL are highly regarded as simple but effective remedies against even the more virulent forms of skin, nose and eye infections. Wise chemists have been, and are still participating, in the steady sales increases over the years.

MEDICO-BIOLOGICAL LABORATORIES LTD.

CARGREEN ROAD, SOUTH NORWOOD
LONDON S.E.25



*New research on Procidets
proves their amazing
effectiveness in the treatment
of streptococcal
and other throat infections*

Newly evolved techniques have convincingly established the value of PROCIDETS in practice.

It has been demonstrated that four Procidets sucked in succession destroy most of the bacteria and fungi in the mouth.

Procidets are fully effective against bacterial and fungal infections of the throat and mouth and clinical trials on hundreds of cases of severe tonsillitis, pharyngitis and stomatitis resulted in 95% cures in 48 hours.

Procidets contain no antibiotic. They are non-toxic and cannot build up resistant strains.

Each 1 gramme lozenge contains :

Cetyl Pyridinium Chloride..... 4 mg.
Sodium Propionate B.P.C..... 100 mg.
Benzocaine B.P..... 5 mg.

Cartons, 18 lozenges, metal foil sealed pack.

Retail price 2/4 (incl. P./tax).

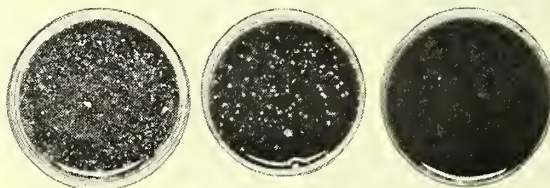
Basic N.H.S. cost 1/4 per carton.

Also available dispensing pack 498 lozenges for N.H.S. patients PROCIDETS prescribable on Form EC10.

Classification category 3/4.

Procidets v Penicillin

Comparative effect on ORAL BACTERIA

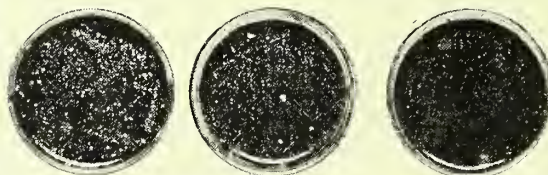


Before

After 1 Procidets

After 4 Procidets

These photographs are of representative plates showing the dramatic action of Procidets in comparison with Penicillin Lozenge B.P.



Before

*After 1 Penicillin
Lozenge B.P.*

*After 4 Penicillin
Lozenges B.P.*

Procidets

*Literature
and samples
on request*

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Stepney Green 2022

THE CHEMIST AND DRUGGIST
CLASSIFIED ADVERTISEMENTS
 Supplement

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ORRIDGE & COMPANY

184 STRAND, W.C.2

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PREMISES

BRACKNELL, BERKSHIRE Town Centre Development

Leading firms are invited to make enquiry regarding the disposal of buildings and sites for shops and retail stores in the town centre.

Full particulars at 2/- each are available of the shops to be built this year in the High Street and in the Pedestrian Way link between the High Street and Broadway. The rentals of lock-up shops are subject to negotiation but will not be less than £600 p.a.

It is intended that 25,000 persons should be housed in Bracknell within ten years, but, to make allowance for people living in surrounding areas, the town centre is designed to serve the needs of a total population of 40,000.

BRACKNELL DEVELOPMENT CORPORATION,

Archway House,
High Street,
Bracknell.

Tel.: Bracknell 641

C 9619

BUSINESSES WANTED

17/6 for 36 words (min.) then 4d. per word
Box 2/-

Old-established firm of manufacturing chemists desires to acquire businesses producing proven ethical branded products. Write:

V. A. PHILLIPS,
7 Park Place,
S.W.1.

C 9547

PREMISES TO LET

17/6 for 36 words (min.) then 4d. per word
Box 2/-

ENFIELD, MIDDLESEX. Main-road shop with living accommodation to let in bold new parade of 12 shops, 11 of which have been let. No duplication of trades being permitted. Rent for whole £400 per annum on lease for 21 years. Garages available at rear. Extensive new housing development proceeding on adjacent sites. Particulars: James Neilson, Chartered Surveyors, Enfield Town. Tel.: Enfield 4040. C 3239

CHEAM, SURREY, in main shopping centre. Shop with maisonnette available in new parade. Apply, Page & Bartlett, 17 Connaught St., W.2. (Amb. 3166/8.) C 3259

SHOPS WITH LIVING ACCOMMODATION on new estates at Hornchurch and Gidea Park suitable for chemist. Rents £400 per annum on lease; also lock-up shops in Romford from £200 per annum. Further particulars, apply Hilbery Chaplin & Co., F.A.I., 135 South Street (opp. Station), Romford. Tel.: 163/4. C 3265

APPOINTMENTS

18/- per half inch (min.) and pro rata.
Box 2/-

BLAKEBROOK HOSPITAL, KIDDERMINSTER

Part-time Pharmacist or
Assistant-in-Dispensing

(Apothecaries' Hall) required. Hours 9 a.m. to 12 noon five days weekly. Salary according to qualification. Applications in writing to the Hospital Secretary. C 9618

BRADFORD "A" GROUP HOSPITAL MANAGEMENT COMMITTEE

Pharmacist

required at the Bradford Royal Infirmary (Category V Hospital). Salary in accordance with Whitley Council decisions. Applications, stating age, experience, and names of two referees, to the Secretary, Bradford Royal Infirmary. C 9626

CENTRAL MIDDLESEX HOSPITAL, PARK ROYAL, N.W.10

Pharmacist

required. Category V Hospital. Salary in accordance with the Whitley Council Scale. Applications, stating age, qualifications and experience, and the names of two referees, to Chief Pharmacist immediately. C 9622

CHERRY KNOWLE HOSPITAL, RYHOPE, Nr. SUNDERLAND, Co. DURHAM

Pharmacist

part-time (approximately 6 half-days weekly). Remuneration according to national scales for Health Service, viz., 34s. per session of four hours (Pharmacist-in-sole-charge). Active Psychiatric Hospital of 850 beds. Written applications forthwith to the Group Secretary. C 9621

CRUMPSALL HOSPITAL, MANCHESTER, 8

Assistant Pharmacist

A vacancy exists for an Assistant Pharmacist. Please apply by letter to the Hospital Administrator as soon as possible. C 9563

HACKNEY HOSPITAL, LONDON, E.9

(General—841 Beds)

Locum Pharmacist

Salary according to experience, to maximum £14 14s. p.w. Apply Secretary, above address. C 240

NEWMARKET GENERAL HOSPITAL, SUFFOLK

Assistant in Dispensing

Applicants should hold the certificate of the Society of Apothecaries. Salary in accordance with Whitley Council Scale. Applications stating age, experience, qualifications and the names of two referees to Medical Superintendent. C 9614

ST. ALFEGE'S HOSPITAL, GREENWICH, S.E.10

Deputy Chief Pharmacist

Applications are invited for the post of Deputy Chief Pharmacist in a well-equipped department at the above hospital (Category IV). Inspection of department by arrangement with Chief Pharmacist. National salary and conditions. Applications to Acting Secretary, G. & D./H.M.C., at above hospital. C 9578

ST. MARGARET'S HOSPITAL, EPPING

Pharmacist

required at the above hospital. Salary and conditions of service in accordance with those laid down by the Pharmaceutical Whitley Council. Apply, giving details, to Superintendent of hospital. C 9592

THE BETHLEM ROYAL HOSPITAL AND THE MAUDSLEY HOSPITAL

Senior Pharmacist

required at the Maudsley Hospital, Denmark Hill, S.E.5. The hospital is a Psychiatric Teaching Hospital associated with the Institute of Psychiatry in the University of London. Salary scale as agreed by the Pharmaceutical Whitley Council rising to a maximum of £805 a year including London Weighting. £25 a year for higher qualification allowed. Apply giving details of qualifications, experience and names of two referees to K. J. Johnson, House Governor and Secretary, Maudsley Hospital, Denmark Hill, S.E.5. C 9562

THE LONDON HOSPITAL, WHITECHAPEL, E.1

Pharmacist

has vacancy for registered pharmacist. Salary £500 rising to £725 plus London Weighting according to previous experience and service. Dining room facilities available. Write Secretary. C 219

WILLESDEN GENERAL HOSPITAL, HARLESDEN ROAD, N.W.10

Chief Pharmacist, Category III

required on retirement of present holder March 31, 1956. Salary on Whitley Council scale. Applications, with full details and names of two referees to Group Secretary, Central Middlesex Group Hospital Management Committee, Acton Lane, N.W.10, by February 4, 1956. C 9601

WILTSHIRE COUNTY COUNCIL Deputy Chief Pharmacist

Applications invited from pharmacists for superannuable appointment of Deputy Chief Pharmacist at Swindon Health Centre. Salary £625 to £850. Thirty-nine hour week. Applications, stating age, qualifications, experience and names and addresses of three referees to be sent to the undersigned as soon as possible.

P. A. SELBORNE STRINGER,

Clerk of the County Council,

County Hall,
Trowbridge.

C 9590

WINDSOR GROUP HOSPITAL MANAGEMENT COMMITTEE, UPTON HOSPITAL, SLOUGH, BUCKS

Senior Pharmacist

required. Department equipped for manufacturing and sterile work. Salary scale: £575-£775 p.a. Applications, stating age, qualifications and experience, with two referees to Hospital Secretary. C 9567

'UNISEC' from the Single Unit to the Complete Pharmacy
WRITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING
MYERS of OLD ST.
133/5 & 141/7 OLD STREET, LONDON, E.C.1

SMITH & NEPHEW, LTD.

Chemist trade representative for South Wales area. Applications are invited from men up to age 35, of proven sales ability and well known to chemists throughout the area. Progressive remuneration by salary and commission. Car provided. All expenses paid. Superannuation scheme. Apply in writing to: Field Manager, Smith & Nephew, Ltd., Bessemer Road, Welwyn Garden City, Herts.

C 9625

Appointments—Continued**NOTTINGHAM No. 2 HOSPITAL MANAGEMENT COMMITTEE**

Pharmacists
Applications are invited for two posts of Pharmacist at the Nottingham City Hospital (Category V). The positions offer excellent experience, and would suit newly qualified persons (previous hospital experience not essential). Salary scale £500-£725 plus £25 for higher qualification.

Applications, stating name and qualifications, together with the names of two referees, should be sent as soon as possible to the Group Secretary, Nottingham No. 2 Hospital Management Committee, Sherwood Hospital, Nottingham.

C 9565

ST. PETER'S HOSPITAL, CHERTSEY, SURREY (404 Beds)

Pharmacist
required. Salary £500-£725 p.a. according to experience. Whitley Council conditions. Accommodation available for single woman at £135 p.a. Applications stating age and experience with names of two referees to Hospital Secretary.

C 9585

SITUATIONS VACANT

12/- for 36 words (min.) then 4d. per word
Box 2/-

The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

RETAIL (HOME)

ASSISTANT PHARMACIST required by old-established firm of Bristol chemists at their main branch. Excellent salary and prospects for the right person. Apply the Secretary, 107 Fishponds Road, Bristol, 5.

C 236

BURNT OAK, Branch Manager Pharmacist required for busy shop and good dispensing connection. Excellent opportunity for ambitious man to earn substantial salary and bonus. Good supporting staff and modern equipped dispensary, etc. Permanency with superannuation benefits. Accommodation available if required. Apply with full details stating when available for interview to Box C 3271.

CHEMIST'S ASSISTANT REQUIRED for counter sales and packing toilets. Free accommodation if required. Please write in first instance. Mr. Spedding, 108 Woodvale, S.E.23.

C 3268

CORNWALL, Pharmacist required by private limited company to manage high-class family business with adequate supporting staff. Apply, with usual particulars in first instance, to the Secretary, R. R. Bastion (Chemists), Ltd., Belmont Green Lane, Redruth, Tel.: 185. C 3221

DONCASTER CO-OPERATIVE CHEMISTS, LTD., require the services of Pharmacists (male or female) as branch managers, 44-hour week; minimum annual salary £840; bonus, increments for sales increases. Rota duties are additional payments. Applications with usual particulars to the Superintendent Chemist, Doncaster Co-operative Chemists, Ltd., P.O. Box 20, Doncaster.

C 199

FINCHLEY, N.3. Unqualified assistant required for dispensing and counter at Ballards Lane, nr. Finchley Central station. Salary according to age and experience. Permanent and progressive position. Three weeks holiday annually. Hours 9 a.m. to 6 p.m. Thursday 1 p.m. Apply with details of previous experience to A. R. Cross, Ltd., 476 Hertford Road, Enfield, or telephone Howard 1723 or 2916.

C 9613

NORTH LONDON. Assistant required mainly for dispensing for good-class business at Mill Hill. Salary according to age and experience. Permanent and progressive position. Three weeks holiday a year. Hours 9 a.m. to 6 p.m. Thursday, 1 p.m. Apply to A. R. Cross, Ltd., 476 Hertford Road, Enfield, or telephone Howard 1723 or 2916.

C 9588

ROYAL PARADE PHARMACY, Hunstanton, Norfolk, nr. Sandringham, and 16 miles from King's Lynn, requires experienced assistant in dispensing, lady, or one with knowledge of dispensing, counter and good toilets. Apply, stating age, experience and salary required. Tel.: Hunstanton 29.

C 3267

UNQUALIFIED ASSISTANT REQUIRED for busy pharmacy chiefly for dispensing. Wages according to experience. Apply Mr. Scott, M.P.S., 565 Lea Bridge Road, Leyton, E.10. Phone: Ley 3245.

C 3236

WANTED. Qualified chemist for pharmacy department (male or female). Salary and commission basis. Excellent opportunity for young enterprising person. Apply stating age and experience to Messrs, S. G. Benet & Son, Ltd., Millbrook, Jersey, Channel Islands. C 3263

WOODFORD. Excellent opportunity for Pharmacist to manage family-type business in pleasant district. Permanency with superannuation benefits. Good salary and commission. Nicely fitted shop with adequate supporting staff. Accommodation available if required. Apply with full details stating when available for interview to Box C 3270.

YORK Co-operative Chemists' Society, Ltd. require branch managers for an established branch and for new branches to be opened shortly. Good salaries. Permanent, progressive, pensionable positions. Living accommodation if required. One of these branches carries tenancy of beautifully appointed new flat at moderate rental. Apply in first instance with full details to Superintendent Chemist, 22 Railway Street, York.

C 3213

LOCUMS WANTED

LOCUM TENENTES PHARMACISTS are required for an extended tour of duties in the London and Suburban districts. Permanency at conclusion of tour if desired. Hours 9 a.m. to 6 p.m. Paid holiday. Salary and expenses basis. Applications to Chief Pharmacist, London Co-operative Chemists, Ltd., Grange Road, Leyton, E.10.

C 3272

WHOLESALE

LONDON COUNTY COUNCIL requires officer for buying scientific apparatus, chemicals, drugs, etc. Candidates should have reached intermediate standard or equivalent in chemistry and/or physics. Experience in manufacturing or wholesale trade an advantage. Commencing salary up to £742 according to qualifications and experience. Permanent pensionable appointment. Apply Chief Officer of Supplies (Estab.), County Hall, S.E.1, by January 31.

C 9630

ADDITIONAL VETERINARY representatives (including one in Scotland) required by established pharmaceutical company. Pharmaceutical or veterinary background and previous experience in representation desirable. Age limit 25-40. Remuneration by salary, commission and bonus; all expenses and luncheon allowance paid. Car supplied. Contributory pension scheme. Write giving full details of age, education, career, salary expected and date available to Box C 9608.

A FIRST-CLASS experienced sales representative is offered an excellent opportunity with established company selling ladies' and gentlemen's hair preparations to chemists. Salary £12 per week, liberal commission and travelling expenses paid. Applications invited for South Wales/Midlands/Hampshire. Box C 9606.

ALLEN & HANBURY, LTD., Ware, Herts. require a young pharmacist for interesting production post, preferably with some experience of aseptic production work. Pension scheme, five-day week. Canteen. Apply in writing giving details of age, qualifications and experience to Personnel Manager.

C 9605

A VACANCY EXISTS for the post of Medical Representative in an established territory of Bedfordshire, Buckinghamshire, Berkshire and Hertfordshire, in an established company specialising in the sale of ethical preparations to the medical profession. Knowledge of the area and experience in the field of medical propaganda an advantage. Good salary and expenses with generous car allowance. Pension scheme. Write for interview giving full details to the London Medical Manager, Calmic, Ltd., 2 Mansfield Street, London, W.1.

C 9582

AN OLD-ESTABLISHED and well-known company of manufacturing chemists situated in a North-west coastal town require an experienced man in the age group 35/40 for a supervisory position in the process department. The successful applicant will have a sound practical experience in pharmaceutical processing and manufacturing including tableting, and an ability to direct a mixed staff. Please give the fullest details, in confidence, with an indication of salary required to: Box C 9599.

AYRTON, SAUNDERS & CO., LTD.

require Pharmaceutical Chemist for analytical and research work, preferably with some experience. Applicant will be encouraged to work for A.R.I.C. if not already so qualified. Good opportunity. 5-day week. Pension scheme. Full details of age, qualifications and experience to Technical Director, 34 Hanover Street, Liverpool, 1.

C 9556

CHEMICAL PROCESS WORKER required at once by Wright, Layman & Umney, Ltd., for production of fine chemicals. The position is permanent and offers an excellent opportunity for a keen energetic worker with ambitions for further promotion. Canteen facilities available. 5-day week and pension fund in operation. Apply with full particulars of previous experience to: Works Director, 66/76 Park Street, S.E.1.

C 9553

EXPERIENCED REPRESENTATIVES required with good live connection amongst ladies' hair-dressers and stores for London and other territories by well-known progressive manufacturers. Commencing salary £500 per annum plus commission and expenses. Replies giving fullest details to Box C 3238.

GLASGOW. The opportunity arises for keen and capable man to take over and develop established connection of well-known ethical house. The position is permanent and pensionable with salary, expenses and commission. Qualification or experience not essential but sound pharmaceutical background and residence on the territory is necessary. Write in confidence with full details of career in first instance. Our staff know of this advertisement. Box C 9574.

GOYA, LTD., have vacancy for two first-class representatives on the following territories: (1) The whole of the counties of Northumberland, Cumberland, and County Durham. (2) The West End of London area together with South-western and North-western postal districts. Experience of selling to chemist and department stores essential. Applicants should have a good education and be of smart appearance. The position offers high remuneration and scope for advancement. A pension scheme and car provided if required. Please write giving details of past experience and age to the Sales Manager, Goya, Ltd., Amersham, Bucks.

C 9604

INTERNATIONAL manufacturers in a progressive market in the motor trade have vacancies for top-grade sales representatives in a large and expanding sales force. Initiative and personality and the ability to sell in a highly competitive market are essential. Age 23-32. Salary, car and expenses. Superannuation scheme. Men whose abilities are likely to reach the high standard required are invited to apply to Box C 9596.

KEEN REPRESENTATIVE required by well-known perfumery house for West Country territory. Salary, commission and car provided. Send full particulars of experience to Box C 3264.

KLEENEX—KOTEX—DELSEY

Applications are invited for appointments of Sales Representatives in the following areas:—

- | | |
|-----------------|---------------|
| (a) East London | (d) Yorkshire |
| (b) South Wales | (e) Midlands |
| (c) Lancashire | |

These appointments offer exceptional opportunity to men under the age of 30 possessing initiative and intelligence. Previous selling experience although not essential could be an advantage. Appointments are salaried and bonus schemes are in operation. Cars and full expenses provided. Apply in confidence giving full details of age and experience to the Sales Manager, Cellucotton Products, Ltd., Carkers Lane, London, N.W.5. C 9566

EXPORT MANAGER

Progressive ethical manufacturers require experienced man, preferably qualified, to take charge of new department dealing with export sales. Applicants should be ambitious and prepared to build up from small beginnings to create a worth while future for himself. Residence in the London area is necessary. Commencing salary up to £1,200 and a pension scheme is available. Full details in strict confidence to Managing Director, Box C 9575.

Situations Vacant—Continued

AN EXPERIENCED REPRESENTATIVE is required by manufacturers of high quality nationally advertised toilet soaps and beauty preparations, to call on chemists and perfumery departments in London and the South. Salary, commission and all expenses paid. Contributory pension scheme. Apply Box C 3260.

INVOICE TYPIST urgently required. Hours 9 to 5.30. No Saturdays. Canteen facilities. Write or telephone for an appointment to The London Essence Co., Ltd., Albany Road, Camberwell, S.E.5. Tel.: Rodney 2324. C 234

MANUFACTURERS of well-known toilet and household products require a very experienced representative to take over an excellent connection which exists in the North-west of England. This vacancy has been caused by the promotion of the present representative. Remuneration is by salary, commission, expenses and car allowance. Box C 9571.

MANAGER for packaging department required by well-known pharmaceutical company, age 30 to 40 years. Applicants should have had at least four years' experience of packaging supervision and should preferably have a qualification in the pharmaceutical or chemical field. Detailed experience of medium or large-scale packaging of tablets, powders, liquids, injectables, ointments, etc., essential. A thorough knowledge of modern packaging equipment, method study, and labour and machine utilisation, necessary. Replies should give fullest details including age, qualifications, experience, previous responsibilities and present salary to Personnel Manager, Box C 9603.

SALES EXECUTIVE

Parke, Davis & Company, Limited, require the services of a pharmacist with a fluent knowledge of French and Spanish as a sales executive in the Foreign Sales Department. This position offers considerable scope for progress, with opportunities for overseas travel. Generous Pension Plan, 5-day week, Staff Restaurant. Applications in the first instance should be addressed to:

Personnel Manager,
Parke, Davis & Company, Limited,
Staines Road,
Hounslow, Middlesex

C 9551

MEDICAL REPRESENTATIVES

Due to expansion Sandoz Products, Ltd., invite applications from young men for the appointment of medical representative in the following areas:—(a) Sheffield area, including part of West Riding of Yorkshire; (b) Cambridgeshire, Huntingdonshire, Norfolk and Suffolk; (c) South Wales, including South Welsh counties and Monmouthshire; (d) Oxfordshire, Berkshire, Buckinghamshire, Northamptonshire and Wiltshire; (e) Glasgow, North of the River Clyde and North-west Scotland. Attractive salary. Superannuation scheme in operation. Thorough training given. Age not exceeding 32. Applicants should be pharmacists (preferably F.P.S.). Please send full details of age, education, qualifications and experience, with photograph (which will be returned) to Staff Manager, Sandoz Products, Ltd., 134 Wigmore Street, London, W.1. C 9581

MERCK-SHARP & DOHME LIMITED

Young men desirous of making Medical Representative work their career are invited to apply for the following two vacancies:

- (a) Sheffield & S. Yorks.
(b) North & East Ridings of Yorkshire.
- The positions offer an interesting and progressive career to men with a flair for this type of work. Previous experience not essential as training will be given. Company car provided and Pension Scheme in operation.

Applicants should be not more than 35 years of age and a pharmaceutical qualification is not essential.

Apply, stating age, previous experience, etc., to: Sales Manager, Merck-Sharp & Dohme, Ltd., Hoddesdon, Herts. C 9620

WELL-KNOWN manufacturer of pharmaceutical products invites applications for the appointment of representative for both medical detail work on general practitioners and calling on retail chemists in Warwickshire, Nottinghamshire, Leicestershire, Northamptonshire and Lincolnshire. Good salary plus full expenses and incentive bonuses, plus contributory pension scheme. Car provided or car allowance paid. Write giving age and details of experience to Box C 9572.

MEDICAL REPRESENTATIVES

Applications are invited from Pharmacists up to 35 years of age who are interested in representing a Pharmaceutical House of International repute in the following territories:—

- | | |
|----------------------|--------------------|
| (a) Bucks and Berks. | (c) S.W. Scotland. |
| (b) N. London. | (d) East Anglia. |

Previous experience is unnecessary as training will be given, but candidates should have a good pharmaceutical background and a keen interest in ethical pharmacy. Initial salary will be based on experience, subsequent adjustment will recognise initiative and ability. Company car provided. A general Pension and Life Assurance plan is in operation.

Write in the first instance for an application form to the Home Sales Manager, Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex.

C 9597

RIKER

Riker Laboratories, Ltd., are again expanding their representative force and invite applications for vacancies in the following areas:

1. Durham.
2. Liverpool and the Wirral Peninsula.
3. Yorkshire (two vacancies—the West Riding, and North and East Riding).

A pharmaceutical qualification is desirable but consideration will be given to other suitably qualified persons. A Company car is provided and remuneration is by salary, expenses and bonus. There is a Company pensions' scheme in operation. Previous experience is not essential as full training will be given.

Apply in writing in the first instance to Sales Department, Morley Street, Loughborough, marking the envelope "Medical Representative."

C 9600

OLD-ESTABLISHED pastille manufacturers require representatives. Choice of areas. Brief details of career to date required in first instance. Write Box "W" 2079, Frost-Smith Advg., 64 Finsbury Pavement, London, E.C.2. C 9616

PHARMACIST REQUIRED by manufacturing chemists, Lancashire. Wholesale selling experience drugs and galenicals desirable. Commencing salary £1,000 p.a. Pension scheme. Five-day week. Applications giving details of experience to Box C 9573.

PRODUCTION SUPERINTENDENT FOR ANTIBIOTIC PROCESSES.

A well-known international company, engaged in the manufacture of pharmaceutical products, has a vacancy for a production superintendent to take control of the processing of antibiotics under sterile conditions. The successful candidate must hold a university degree or equivalent in chemistry or pharmacy, and have 3-5 years' experience in synthetic, organic, pharmaceutical or chemical production, whilst knowledge of sterile techniques would be an advantage. Further detailed training will be given, including a period in one of the major antibiotic plants in America. The location of the employment will be a very pleasant area on the South Coast, and opportunities may occur for travel which the candidate must be willing to undertake. This vacancy presents the chance of joining a rapidly expanding and enterprising company, in which the amiable team work of all staff is the keynote, and the salary will be commensurate with the responsibilities and experience. Apply with full details to Personnel Manager, Box C 9602.

THE BRITISH DRUG HOUSES, LTD., require immediately a deputy manager with a thorough knowledge of tablet manufacture for their up-to-date tablet manufacturing department in London. This position, which is permanent and pensionable, is a responsible executive appointment carrying with it an appropriate salary. Candidates should preferably be pharmacists with experience of controlling staff. The company operates a five-day week and has a profit-sharing scheme. Applications in writing, which will be treated in confidence, should give full details of past experience and be addressed to: Ref. HAC/CO, The Personnel Manager, The British Drug Houses, Ltd., Graham Street, London, N.1. C 9610

ROCHE**Medical Representatives**

Expansion and Promotion have created the following vacancies:

1. South Wales.
2. London (North and East).
3. Oxford, Bucks, Berks, Northants.

Previous experience not necessary but applicants should hold a pharmaceutical qualification. Applicants with no pharmaceutical qualification should give adequate details of experience, education and/or academic attainment to warrant consideration. Usual expenses and salary commensurate with experience. Contributory pension scheme.

Detailed applications, which will be treated as confidential, to the Secretary, Roche Products, Limited, 15 Manchester Square, London, W.1.

C 9595

**IRANIAN
LIQUORICE
ROOT****ASHDAY (LONDON) LIMITED**

Imperial House, Dominion Street, London, E.C.2.

Telephone **MONarch 9225** Cables **LAMASOL, London**

C 9615

Situations Vacant—Continued

REPRESENTATIVES wanted all areas U.K. calling chemists retail and wholesale, and stores, to carry four good lines. State exact area covered, and other lines carried, Box C 3269. **WELL-KNOWN MANUFACTURER** of hair-dressers' preparations requires, in several areas, representatives with established connections with chemists and stores. They will handle on a generous commission basis nationally advertised hair lacquers, deodorants, etc. Apply Rilling Company (London, New York), 222-A Borough High Street, S.E.1. Hop. 1268/9. C 9611

WHOLESALE (OVERSEAS)

WANTED, pharmacist, aged 25-35, single, for Quetta, Pakistan, ideal climate, RS. 1,200 per month. Three years' agreement. Marker Alkaloids, Associated Gale, Baiss & Co., Ltd., 4 Grafton Street, London, W.1. C 9609

AGENTS WANTED

17/6 for 36 words (min.) then 4d. per word
Box 2/-

MANUFACTURERS of pharmaceutical tablets require agent London area. Calling on retail and wholesale chemists. Good commission. Write Box C 9552.

SOLE IMPORTERS of the exclusive Kiddy-sponges now require coverage in London (South of Thames), Essex, Kent, Sussex, Warwick, Lancashire, Wales, Northumberland, Durham, Cumberland, Westmorland. Excellent additional line for established agents calling on retailers, 10 per cent. commission. Exhibiting at Blackpool Fair 1956. Box C 3222.

SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word.
Box 1/-

WHOLESALE

ANALYTICAL CHEMIST, twenty-five years' experience with London manufacturing chemists, at present in the Midlands, would welcome return to London. Able and willing to assist in management and/or production. Box C 3266.

SALES MANAGER seeks change to go-ahead company where his 10 years' post-war experience with leading chemists and department stores can be fully utilised. First-class testimonials and personal selling record. Box C 3257.

SALES MANAGER, 31, actively engaged in, and conversant with, pharmaceuticals, heavy chemicals and specialties. Well versed in administration, agency foundation, international merchandising, freighting and negotiation. In constant touch home and export markets. Seeks position having sound possibilities of progress. Apply Box C 3194.

YORKSHIRE REPRESENTATION.

Representative, age 38 years, requires situation, 10-years' experience calling on chemists, co-ops, medical welfare departments. Very good personal connection. Apply Box C 3233.

REPRESENTATIVE, 10 years present post. Extensive hospital background. Strong connection all London hospitals, seeks post similar with scope for advancement. Only established reputable firms considered. Write Box C 3252.

AGENCIES WANTED

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Box 2/-

AUSTRALIAN IMPORT AGENTS interested in obtaining agency manufacturers and exporters of fine and heavy chemicals. Principal would like to establish contact prior to his visit to London in March 1956. Please write Box C 3261.

EXPERIENCED REPRESENTATIVE, under 35, with sound connection in Eastern Counties, East Midlands and Northern Home Counties, requires first-class agencies. Details to Box C 3256.

WANTED

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Brook House Press,
Old Mill Street, Blackburn
Phone: 553

C 9624

MANUFACTURING CHEMISTS invite inquiries for the manufacture, packing, etc., of private formulae preparations, liquids, powders, tablets. Dispatch facilities available with own printing department. Frank Macowal & Yanatas, Ltd., Willshaw St., London, S.E.14. Tel.: Tideway 3846-8. C 122

SOUTH-WEST LANCASHIRE. Building of three floors with basement offers opportunities for light industry and/or amalgamation with old-established manufacturing chemists. Box C 3258.

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50 PESTLES AND MORTARS. New, half-price. Sizes 0 to 7 price 6/- to 17/6. Single or lot, also few odd pestles. H.D.G., 79 Great George Street, Leeds. C 9617 **SPARKLING GLITTER POWDERS**. Silver, gold, crimson, scarlet, pink, bronze, blue, green, yellow, rainbow, white, black. Attractive tubes. Large, 10/- dozen; small, 6/- dozen, including tax. Retail 1/6 and 1/- each respectively. Drycol, Ltd., 504 High Road, Wembley, Middlesex. Wembley 3630. C 3240

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18/- per half inch (min.) and pro rata.
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2/5 LITTLE BRITAIN (close to G.P.O.), London, E.C.1. Practically new chemists' and druggists shop fittings (mostly in light oak), drug runs, nests of drawers, showcases, glass counters, mirrors, office furniture, typewriters, filing cabinets, electric and gas fittings and radiators. B. Norman & Son will sell by auction at their Sale Rooms, as above. Wednesday, January 25, at 1.30 p.m. View day prior. Catalogues (3d. by post) on application. C 9607

STOCKTAKING

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QUIET AND ACCURATE workmanship. Over 30 years' practical experience. Detailed inventories supplied to suit your individual requirements. Your own stock sheets priced. Terms moderate. C. W. Playfoot, 8 Aylward Road, London, S.W.20. Phone Liberty 4104. C 190

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